

# TABLES

DE

# LOGARITHMES

*Pour les Sinus & Tangentes de toutes les minutes  
du Quart de Cercle , & pour les Nombres  
naturels depuis 1 jusqu'à 10800,*



	Sin. o	Tang. o	Cotang. o	Cofin. o		Sin. 1	Tang. 1	Cotan. 1	Cofin. 1		
o	Inf. nég.	Inf. nég.	Inf. pos.	o.000000	60	o	8.241855	8.241921	1.758079	9.999934	60
1	6.463726	6.463726	3.536274	0.000000	59	1	8.249033	8.249102	1.750898	9.999932	59
2	6.764756	6.764756	3.235244	0.000000	58	2	8.256094	8.256165	1.743835	9.999929	58
3	6.940847	6.940847	3.059153	0.000000	57	3	8.263048	8.263115	1.736885	9.999927	57
4	7.065786	7.065786	2.934214	9.999999	56	4	8.269881	8.269956	1.730044	9.999925	56
5	7.162696	7.162696	2.837304	9.999999	55	5	8.276614	8.276691	1.723309	9.999922	55
6	7.241877	7.241878	2.758122	9.999999	54	6	8.283243	8.283323	1.716677	9.999920	54
7	7.308824	7.308825	2.691175	9.999999	53	7	8.289773	8.289856	1.710144	9.999918	53
8	7.366816	7.366817	2.633183	9.999999	52	8	8.296207	8.296292	1.703708	9.999915	52
9	7.417968	7.417970	2.582030	9.999998	51	9	8.302546	8.302634	1.697366	9.999913	51
10	7.463725	7.463727	2.536273	9.999998	50	10	8.308794	8.308884	1.691116	9.999910	50
11	7.505118	7.505120	2.494880	9.999998	49	11	8.314954	8.315046	1.684954	9.999907	49
12	7.542906	7.542909	2.457091	9.999997	48	12	8.321027	8.321122	1.678858	9.999905	48
13	7.577668	7.577672	2.422328	9.999997	47	13	8.327016	8.327114	1.672886	9.999902	47
14	7.609853	7.609857	2.390143	9.999996	46	14	8.332924	8.333025	1.666975	9.999899	46
15	7.639816	7.639820	2.360180	9.999996	45	15	8.338753	8.338856	1.661144	9.999897	45
16	7.667844	7.667849	2.332151	9.999995	44	16	8.344504	8.344610	1.655390	9.999894	44
17	7.694173	7.694179	2.305821	9.999995	43	17	8.350181	8.350289	1.649711	9.999891	43
18	7.718997	7.719003	2.280997	9.999994	42	18	8.355783	8.355895	1.644105	9.999888	42
19	7.742477	7.742484	2.257116	9.999993	41	19	8.361315	8.361430	1.638570	9.999885	41
20	7.764754	7.764761	2.235239	9.999993	40	20	8.366777	8.366895	1.633105	9.999882	40
21	7.785943	7.785951	2.214049	9.999992	39	21	8.372171	8.372292	1.627708	9.999879	39
22	7.806146	7.806155	2.193845	9.999991	38	22	8.377499	8.377622	1.622378	9.999876	38
23	7.825451	7.825460	2.174540	9.999990	37	23	8.382762	8.382889	1.617114	9.999873	37
24	7.843934	7.843944	2.156056	9.999989	36	24	8.387962	8.388092	1.611908	9.999870	36
25	7.861662	7.861674	2.138326	9.999989	35	25	8.393101	8.393234	1.606766	9.999867	35
26	7.878695	7.878708	2.121292	9.999988	34	26	8.398179	8.398315	1.601685	9.999864	34
27	7.895085	7.895099	2.104901	9.999987	33	27	8.403193	8.403338	1.596662	9.999861	33
28	7.910879	7.910894	2.089106	9.999986	32	28	8.408161	8.408324	1.591696	9.999858	32
29	7.926119	7.926134	2.073866	9.999984	31	29	8.413068	8.413213	1.586781	9.999854	31
30	7.940842	7.940858	2.059142	9.999983	30	30	8.417919	8.418068	1.581932	9.999851	30
31	7.955022	7.955100	2.044900	9.999982	29	31	8.422717	8.422869	1.577131	9.999848	29
32	7.968870	7.968889	2.031111	9.999981	28	32	8.427462	8.427618	1.572382	9.999844	28
33	7.982233	7.982253	2.017747	9.999980	27	33	8.432156	8.432315	1.567685	9.999841	27
34	7.995198	7.995219	2.004781	9.999979	26	34	8.436800	8.436962	1.563038	9.999838	26
35	8.007787	8.007809	1.992191	9.999977	25	35	8.441394	8.441560	1.558440	9.999834	25
36	8.020021	8.020044	1.979956	9.999976	24	36	8.445941	8.446110	1.553890	9.999831	24
37	8.031919	8.031945	1.968055	9.999975	23	37	8.450440	8.450613	1.549387	9.999827	23
38	8.043501	8.043527	1.956473	9.999973	22	38	8.454893	8.455070	1.544930	9.999824	22
39	8.054781	8.054809	1.945191	9.999972	21	39	8.459301	8.459481	1.540519	9.999820	21
40	8.065776	8.065806	1.934194	9.999971	20	40	8.463665	8.463849	1.536151	9.999816	20
41	8.076500	8.076531	1.923469	9.999969	19	41	8.467985	8.468172	1.531828	9.999813	19
42	8.086965	8.086997	1.913003	9.999968	18	42	8.472263	8.472454	1.527546	9.999809	18
43	8.097183	8.097217	1.902783	9.999966	17	43	8.476498	8.476693	1.523307	9.999805	17
44	8.107167	8.107203	1.892797	9.999964	16	44	8.480693	8.480892	1.519108	9.999801	16
45	8.116926	8.116963	1.883037	9.999963	15	45	8.484848	8.485050	1.514950	9.999797	15
46	8.126471	8.126510	1.873490	9.999961	14	46	8.488963	8.489170	1.510830	9.999794	14
47	8.135810	8.135851	1.864149	9.999959	13	47	8.493040	8.493250	1.506750	9.999790	13
48	8.144953	8.144996	1.855004	9.999958	12	48	8.497078	8.497293	1.502707	9.999786	12
49	8.153907	8.153952	1.846048	9.999956	11	49	8.501080	8.501298	1.498702	9.999782	11
50	8.162684	8.162727	1.837273	9.999954	10	50	8.505045	8.505267	1.494733	9.999778	10
51	8.171280	8.171328	1.828672	9.999952	9	51	8.508974	8.509200	1.490800	9.999774	9
52	8.179713	8.179763	1.820237	9.999950	8	52	8.512867	8.513098	1.486902	9.999769	8
53	8.187985	8.188036	1.811964	9.999948	7	53	8.516726	8.516961	1.483039	9.999765	7
54	8.196102	8.196156	1.803844	9.999946	6	54	8.520551	8.520790	1.479210	9.999761	6
55	8.204070	8.204126	1.795874	9.999944	5	55	8.524343	8.524586	1.475414	9.999757	5
56	8.211895	8.211953	1.788047	9.999942	4	56	8.528102	8.528349	1.471651	9.999753	4
57	8.219581	8.219641	1.780359	9.999940	3	57	8.531828	8.532080	1.467920	9.999748	3
58	8.227133	8.227195	1.772805	9.999938	2	58	8.535523	8.535779	1.464221	9.999744	2
59	8.234557	8.234621	1.765379	9.999936	1	59	8.539186	8.539447	1.460553	9.999740	1
60	8.241855	8.241921	1.758079	9.999934	0	60	8.542819	8.543084	1.456916	9.999735	0
	Cofin. 89	Cotan. 89	Tang. 89	Sin. 89	1		Cofin. 88	Cotan. 88	Tang. 88	Sin. 88	1



				(3)										
1	Sin. 2	Tang. 2	Cotang. 2	Cofin. 2	1	Sin. 3	Tang. 3	Cotang. 3	Cofin. 3	1	Sin. 3	Tang. 3	Cotang. 3	Cofin. 3
0	8.542819	8.543084	1.456916	9.999735	60	8.718800	8.719396	1.280604	9.999404	60	8.718800	8.719396	1.280604	9.999404
1	8.546422	8.546691	1.453309	9.999731	59	8.721204	8.721806	1.278194	9.999398	59	8.721204	8.721806	1.278194	9.999398
2	8.549995	8.550266	1.449732	9.999726	58	8.723595	8.724204	1.275796	9.999391	58	8.723595	8.724204	1.275796	9.999391
3	8.553539	8.553817	1.446183	9.999722	57	8.725972	8.726588	1.273412	9.999384	57	8.725972	8.726588	1.273412	9.999384
4	8.557054	8.557336	1.442664	9.999717	56	8.728337	8.728959	1.271041	9.999378	56	8.728337	8.728959	1.271041	9.999378
5	8.560540	8.560828	1.439172	9.999713	55	8.730688	8.731317	1.268683	9.999371	55	8.730688	8.731317	1.268683	9.999371
6	8.563999	8.564291	1.435709	9.999708	54	8.733027	8.733663	1.266337	9.999364	54	8.733027	8.733663	1.266337	9.999364
7	8.567431	8.567727	1.432273	9.999704	53	8.735354	8.735996	1.264004	9.999357	53	8.735354	8.735996	1.264004	9.999357
8	8.570836	8.571137	1.428863	9.999699	52	8.737667	8.738317	1.261683	9.999350	52	8.737667	8.738317	1.261683	9.999350
9	8.574214	8.574520	1.425480	9.999694	51	8.739969	8.740626	1.259374	9.999343	51	8.739969	8.740626	1.259374	9.999343
10	8.577566	8.577877	1.422123	9.999689	50	8.742259	8.742922	1.257078	9.999336	50	8.742259	8.742922	1.257078	9.999336
11	8.580892	8.581208	1.418792	9.999681	49	8.744536	8.745207	1.254793	9.999329	49	8.744536	8.745207	1.254793	9.999329
12	8.584193	8.584514	1.415486	9.999676	48	8.746802	8.747479	1.252521	9.999322	48	8.746802	8.747479	1.252521	9.999322
13	8.587469	8.587795	1.412205	9.999671	47	8.749055	8.749740	1.250260	9.999315	47	8.749055	8.749740	1.250260	9.999315
14	8.590721	8.591051	1.408949	9.999667	46	8.751197	8.751899	1.248011	9.999308	46	8.751197	8.751899	1.248011	9.999308
15	8.593948	8.594283	1.405717	9.999665	45	8.753328	8.754027	1.245773	9.999301	45	8.753328	8.754027	1.245773	9.999301
16	8.597152	8.597492	1.402508	9.999660	44	8.755447	8.756153	1.243547	9.999294	44	8.755447	8.756153	1.243547	9.999294
17	8.600332	8.600677	1.399323	9.999655	43	8.757555	8.758268	1.241332	9.999287	43	8.757555	8.758268	1.241332	9.999287
18	8.603489	8.603839	1.396161	9.999650	42	8.759651	8.760372	1.239128	9.999279	42	8.759651	8.760372	1.239128	9.999279
19	8.606623	8.606978	1.393022	9.999645	41	8.761733	8.762465	1.236935	9.999272	41	8.761733	8.762465	1.236935	9.999272
20	8.609734	8.610094	1.389906	9.999640	40	8.763801	8.764546	1.234754	9.999265	40	8.763801	8.764546	1.234754	9.999265
21	8.612823	8.613189	1.386811	9.999635	39	8.765867	8.766617	1.232583	9.999257	39	8.765867	8.766617	1.232583	9.999257
22	8.615891	8.616266	1.383738	9.999629	38	8.767928	8.768688	1.230422	9.999250	38	8.767928	8.768688	1.230422	9.999250
23	8.618937	8.619313	1.380687	9.999624	37	8.770000	8.770772	1.228273	9.999242	37	8.770000	8.770772	1.228273	9.999242
24	8.621962	8.622343	1.377657	9.999619	36	8.772081	8.772866	1.226134	9.999235	36	8.772081	8.772866	1.226134	9.999235
25	8.624965	8.625352	1.374648	9.999614	35	8.774173	8.774965	1.224005	9.999227	35	8.774173	8.774965	1.224005	9.999227
26	8.627948	8.628340	1.371660	9.999608	34	8.776273	8.777072	1.221886	9.999220	34	8.776273	8.777072	1.221886	9.999220
27	8.630911	8.631308	1.368692	9.999603	33	8.778384	8.779194	1.219778	9.999212	33	8.778384	8.779194	1.219778	9.999212
28	8.633854	8.634264	1.365744	9.999597	32	8.780504	8.781320	1.217680	9.999205	32	8.780504	8.781320	1.217680	9.999205
29	8.636776	8.637194	1.362816	9.999592	31	8.782635	8.783460	1.215592	9.999197	31	8.782635	8.783460	1.215592	9.999197
30	8.639680	8.640103	1.359907	9.999586	30	8.784775	8.785616	1.213514	9.999189	30	8.784775	8.785616	1.213514	9.999189
31	8.642563	8.642998	1.357018	9.999581	29	8.786923	8.787772	1.211446	9.999181	29	8.786923	8.787772	1.211446	9.999181
32	8.645428	8.645873	1.354147	9.999575	28	8.789078	8.790033	1.209387	9.999174	28	8.789078	8.790033	1.209387	9.999174
33	8.648274	8.648734	1.351296	9.999570	27	8.791238	8.792206	1.207338	9.999166	27	8.791238	8.792206	1.207338	9.999166
34	8.651102	8.651577	1.348463	9.999564	26	8.793401	8.794379	1.205299	9.999158	26	8.793401	8.794379	1.205299	9.999158
35	8.653911	8.654396	1.345648	9.999558	25	8.795568	8.796551	1.203269	9.999150	25	8.795568	8.796551	1.203269	9.999150
36	8.656702	8.657199	1.342851	9.999553	24	8.797734	8.798722	1.201248	9.999142	24	8.797734	8.798722	1.201248	9.999142
37	8.659475	8.659982	1.340072	9.999547	23	8.799907	8.800906	1.199237	9.999134	23	8.799907	8.800906	1.199237	9.999134
38	8.662230	8.662749	1.337311	9.999541	22	8.802082	8.803194	1.197235	9.999126	22	8.802082	8.803194	1.197235	9.999126
39	8.664968	8.665493	1.334567	9.999535	21	8.804267	8.805388	1.195242	9.999118	21	8.804267	8.805388	1.195242	9.999118
40	8.667689	8.668220	1.331840	9.999529	20	8.806452	8.807592	1.193258	9.999110	20	8.806452	8.807592	1.193258	9.999110
41	8.670393	8.670930	1.329130	9.999524	19	8.808639	8.809797	1.191283	9.999102	19	8.808639	8.809797	1.191283	9.999102
42	8.673080	8.673623	1.326437	9.999518	18	8.810827	8.812006	1.189317	9.999094	18	8.810827	8.812006	1.189317	9.999094
43	8.675751	8.676309	1.323761	9.999512	17	8.813014	8.814206	1.187359	9.999086	17	8.813014	8.814206	1.187359	9.999086
44	8.678405	8.678970	1.321100	9.999506	16	8.815201	8.816406	1.185411	9.999077	16	8.815201	8.816406	1.185411	9.999077
45	8.681043	8.681614	1.318456	9.999500	15	8.817388	8.818606	1.183471	9.999069	15	8.817388	8.818606	1.183471	9.999069
46	8.683665	8.684242	1.315828	9.999493	14	8.819574	8.820874	1.181539	9.999061	14	8.819574	8.820874	1.181539	9.999061
47	8.686272	8.686853	1.313216	9.999487	13	8.821761	8.823074	1.179616	9.999053	13	8.821761	8.823074	1.179616	9.999053
48	8.688865	8.689453	1.310619	9.999481	12	8.823948	8.825298	1.177702	9.999044	12	8.823948	8.825298	1.177702	9.999044
49	8.691438	8.692033	1.308037	9.999475	11	8.826134	8.827534	1.175795	9.999036	11	8.826134	8.827534	1.175795	9.999036
50	8.693998	8.694599	1.305471	9.999469	10	8.828320	8.829734	1.173897	9.999027	10	8.828320	8.829734	1.173897	9.999027
51	8.696543	8.697151	1.302919	9.999463	9	8.830506	8.831934	1.172008	9.999019	9	8.830506	8.831934	1.172008	9.999019
52	8.699073	8.699687	1.300383	9.999456	8	8.832691	8.834134	1.170126	9.999010	8	8.832691	8.834134	1.170126	9.999010
53	8.701589	8.702209	1.297861	9.999450	7	8.834876	8.836344	1.168252	9.999002	7	8.834876	8.836344	1.168252	9.999002
54	8.704090	8.704716	1.295354	9.999443	6	8.837061	8.838544	1.166387	9.998993	6	8.837061	8.838544	1.166387	9.998993
55	8.706577	8.707208	1.292860	9.999437	5	8.839246	8.840734	1.164529	9.998984	5	8.839246	8.840734	1.164529	9.998984
56	8.709049	8.709681	1.290382	9.999431	4	8.841431	8.842944	1.162679	9.998976	4	8.841431	8.842944	1.162679	9.998976
57	8.711507	8.712143	1.287917	9.999424	3	8.843616	8.845144	1.160837	9.998967	3	8.843616	8.845144	1.160837	9.998967
58	8.713952	8.714593	1.285465	9.999418	2	8.845801	8.847334	1.159002	9.998958	2	8.845801	8.847334	1.159002	9.998958
59	8.716383	8.716972	1.283028	9.999411	1	8.847986	8.849434	1.157171	9.998950	1	8.847986	8.849434	1.157171	9.998950
60	8.718800	8.719396	1.280604	9.999404	0	8.850171	8.850944	1.155356	9.998941	0	8.850171	8.850944	1.155356	9.998941
	Cofin. 87	Cotan. 87	Tang. 87	Sin. 87		Cofin. 86	Cotan. 86	Tang. 86	Sin. 86		Cofin. 86	Cotan. 86	Tang. 86	Sin. 86



Sin. 4	Tang. 4	Cotang. 4	Cofin. 4	Sin. 5	Tang. 5	Cotang. 5	Cofin. 5		
0 8.843585	8.844644	1.155356	9.998941	60	0 8.940296	8.941952	1.058048	9.998344	60
1 8.845387	8.846455	1.153545	9.998932	59	1 8.941738	8.943404	1.056596	9.998333	59
2 8.847183	8.848260	1.151740	9.998923	58	2 8.943174	8.944852	1.055148	9.998322	58
3 8.848971	8.850057	1.149943	9.998914	57	3 8.944606	8.946295	1.053705	9.998311	57
4 8.850751	8.851846	1.148154	9.998905	56	4 8.946034	8.947734	1.052266	9.998300	56
5 8.852525	8.853628	1.146372	9.998896	55	5 8.947456	8.949168	1.050832	9.998289	55
6 8.854291	8.855403	1.144597	9.998887	54	6 8.948874	8.950597	1.049403	9.998277	54
7 8.856049	8.857171	1.142822	9.998878	53	7 8.950287	8.952021	1.047979	9.998266	53
8 8.857801	8.858932	1.141068	9.998869	52	8 8.951696	8.953441	1.046559	9.998255	52
9 8.859546	8.860686	1.139314	9.998860	51	9 8.953100	8.954856	1.045144	9.998243	51
10 8.861283	8.862433	1.137567	9.998851	50	10 8.954499	8.956267	1.043733	9.998232	50
11 8.863014	8.864173	1.135827	9.998841	49	11 8.955894	8.957674	1.042326	9.998220	49
12 8.864738	8.865906	1.134094	9.998832	48	12 8.957284	8.959075	1.040925	9.998209	48
13 8.866455	8.867632	1.132368	9.998823	47	13 8.958670	8.960473	1.039527	9.998197	47
14 8.868165	8.869351	1.130649	9.998813	46	14 8.960052	8.961866	1.038134	9.998186	46
15 8.869868	8.871064	1.128936	9.998804	45	15 8.961429	8.963255	1.036745	9.998174	45
16 8.871565	8.872770	1.127230	9.998795	44	16 8.962801	8.964639	1.035361	9.998163	44
17 8.873255	8.874469	1.125531	9.998785	43	17 8.964170	8.966019	1.033981	9.998151	43
18 8.874938	8.876162	1.123838	9.998776	42	18 8.965534	8.967394	1.032606	9.998139	42
19 8.876615	8.877849	1.122151	9.998766	41	19 8.966893	8.968766	1.031234	9.998128	41
20 8.878285	8.879529	1.120467	9.998757	40	20 8.968249	8.970133	1.029867	9.998116	40
21 8.879949	8.881202	1.118798	9.998747	39	21 8.969600	8.971496	1.028504	9.998104	39
22 8.881607	8.882869	1.117131	9.998738	38	22 8.970947	8.972855	1.027145	9.998092	38
23 8.883258	8.884530	1.115470	9.998728	37	23 8.972289	8.974209	1.025791	9.998080	37
24 8.884903	8.886185	1.113815	9.998718	36	24 8.973628	8.975560	1.024440	9.998068	36
25 8.886542	8.887833	1.112167	9.998708	35	25 8.974962	8.976906	1.023094	9.998056	35
26 8.888174	8.889476	1.110524	9.998699	34	26 8.976293	8.978248	1.021752	9.998044	34
27 8.889801	8.891112	1.108888	9.998689	33	27 8.977619	8.979586	1.020414	9.998032	33
28 8.891421	8.892742	1.107258	9.998679	32	28 8.978941	8.980921	1.019079	9.998020	32
29 8.893035	8.894366	1.105634	9.998669	31	29 8.980259	8.982251	1.017749	9.998008	31
30 8.894643	8.895984	1.104016	9.998659	30	30 8.981573	8.983577	1.016423	9.997996	30
31 8.896246	8.897596	1.102404	9.998649	29	31 8.982883	8.984899	1.015101	9.997984	29
32 8.897842	8.899203	1.100797	9.998639	28	32 8.984189	8.986217	1.013783	9.997972	28
33 8.899432	8.900803	1.099197	9.998629	27	33 8.985491	8.987532	1.012468	9.997959	27
34 8.901017	8.902398	1.097602	9.998619	26	34 8.986789	8.988842	1.011158	9.997947	26
35 8.902596	8.903987	1.096013	9.998609	25	35 8.988083	8.990149	1.009851	9.997935	25
36 8.904169	8.905570	1.094430	9.998599	24	36 8.989374	8.991451	1.008549	9.997922	24
37 8.905736	8.907147	1.092853	9.998589	23	37 8.990660	8.992750	1.007250	9.997910	23
38 8.907297	8.908719	1.091281	9.998578	22	38 8.991943	8.994045	1.005955	9.997897	22
39 8.908853	8.910285	1.089715	9.998568	21	39 8.993222	8.995337	1.004663	9.997885	21
40 8.910404	8.911846	1.088154	9.998558	20	40 8.994497	8.996624	1.003376	9.997872	20
41 8.911949	8.913401	1.086599	9.998548	19	41 8.995768	8.997908	1.002092	9.997860	19
42 8.913488	8.914951	1.085049	9.998537	18	42 8.997036	8.999188	1.000812	9.997847	18
43 8.915022	8.916495	1.083505	9.998527	17	43 8.998299	9.000465	0.999535	9.997835	17
44 8.916550	8.918034	1.081966	9.998516	16	44 8.999560	9.001738	0.998262	9.997822	16
45 8.918073	8.919568	1.080432	9.998506	15	45 9.000816	9.003007	0.996993	9.997809	15
46 8.919591	8.921096	1.078904	9.998495	14	46 9.002069	9.004272	0.995728	9.997797	14
47 8.921103	8.922619	1.077381	9.998485	13	47 9.003318	9.005534	0.994466	9.997784	13
48 8.922610	8.924136	1.075864	9.998474	12	48 9.004563	9.006792	0.993208	9.997771	12
49 8.924112	8.925649	1.074351	9.998464	11	49 9.005805	9.008047	0.991953	9.997758	11
50 8.925609	8.927156	1.072844	9.998453	10	50 9.007044	9.009298	0.990702	9.997745	10
51 8.927100	8.928658	1.071342	9.998442	9	51 9.008278	9.010546	0.989454	9.997732	9
52 8.928587	8.930155	1.069845	9.998431	8	52 9.009510	9.011790	0.988210	9.997719	8
53 8.930068	8.931647	1.068353	9.998421	7	53 9.010737	9.013031	0.986969	9.997706	7
54 8.931544	8.933134	1.066866	9.998410	6	54 9.011962	9.014268	0.985732	9.997693	6
55 8.933015	8.934616	1.065384	9.998399	5	55 9.013182	9.015502	0.984498	9.997680	5
56 8.934481	8.936093	1.063907	9.998388	4	56 9.014400	9.016732	0.983268	9.997667	4
57 8.935942	8.937565	1.062435	9.998377	3	57 9.015613	9.017959	0.982041	9.997654	3
58 8.937398	8.939032	1.060968	9.998366	2	58 9.016824	9.019183	0.980817	9.997641	2
59 8.938850	8.940494	1.059506	9.998355	1	59 9.018031	9.020403	0.979597	9.997628	1
60 8.940296	8.941952	1.058048	9.998344	0	60 9.019235	9.021620	0.978380	9.997614	0
Cofin. 85	Cotan. 85	Tang. 85	Sin. 85		Cofin. 84	Cotan. 84	Tang. 84	Sin. 84	



Sin. 6 Tang. 6 Cotang. 6 Cofin. 6				Sin. 7 Tang. 7 Cotang. 7 Cofin. 7							
0	9.019235	9.021620	0.978380	9.997614	60	0	9.085894	9.089144	0.910856	9.996751	60
1	9.020435	9.022834	0.977166	9.997601	59	1	9.086922	9.090187	0.909813	9.996735	59
2	9.021635	9.024044	0.975956	9.997588	58	2	9.087947	9.091228	0.908772	9.996720	58
3	9.022835	9.025251	0.974749	9.997574	57	3	9.088970	9.092266	0.907734	9.996704	57
4	9.024016	9.026455	0.973545	9.997561	56	4	9.089990	9.093302	0.906698	9.996688	56
5	9.025203	9.027655	0.972345	9.997547	55	5	9.091008	9.094336	0.905664	9.996673	55
6	9.026386	9.028852	0.971148	9.997534	54	6	9.092024	9.095367	0.904633	9.996657	54
7	9.027567	9.030046	0.969954	9.997520	53	7	9.093037	9.096395	0.903605	9.996641	53
8	9.028744	9.031237	0.968763	9.997507	52	8	9.094047	9.097422	0.902578	9.996625	52
9	9.029918	9.032425	0.967575	9.997493	51	9	9.095056	9.098446	0.901554	9.996610	51
10	9.031089	9.033609	0.966391	9.997480	50	10	9.096062	9.099468	0.900532	9.996594	50
11	9.032257	9.034791	0.965209	9.997466	49	11	9.097065	9.100487	0.899513	9.996578	49
12	9.033421	9.035969	0.964031	9.997452	48	12	9.098066	9.101504	0.898496	9.996562	48
13	9.034582	9.037144	0.962856	9.997439	47	13	9.099065	9.102519	0.897481	9.996546	47
14	9.035741	9.038316	0.961684	9.997425	46	14	9.100062	9.103532	0.896468	9.996530	46
15	9.036896	9.039485	0.960515	9.997411	45	15	9.101056	9.104542	0.895458	9.996514	45
16	9.038048	9.040651	0.959349	9.997397	44	16	9.102048	9.105550	0.894450	9.996498	44
17	9.039197	9.041813	0.958187	9.997383	43	17	9.103037	9.106556	0.893444	9.996482	43
18	9.040342	9.042972	0.957027	9.997369	42	18	9.104025	9.107559	0.892441	9.996465	42
19	9.041485	9.044130	0.955870	9.997355	41	19	9.105010	9.108560	0.891440	9.996449	41
20	9.042625	9.045284	0.954716	9.997341	40	20	9.105992	9.109559	0.890441	9.996433	40
21	9.043762	9.046434	0.953566	9.997327	39	21	9.106973	9.110556	0.889444	9.996417	39
22	9.044895	9.047582	0.952418	9.997313	38	22	9.107951	9.111551	0.888449	9.996400	38
23	9.046026	9.048727	0.951273	9.997299	37	23	9.108927	9.112543	0.887457	9.996384	37
24	9.047154	9.049869	0.950131	9.997285	36	24	9.109901	9.113533	0.886467	9.996368	36
25	9.048279	9.051008	0.948992	9.997271	35	25	9.110873	9.114521	0.885479	9.996351	35
26	9.049400	9.052144	0.947856	9.997257	34	26	9.111842	9.115507	0.884493	9.996335	34
27	9.050519	9.053277	0.946723	9.997242	33	27	9.112809	9.116491	0.883509	9.996318	33
28	9.051635	9.054407	0.945593	9.997228	32	28	9.113774	9.117472	0.882528	9.996302	32
29	9.052749	9.055535	0.944465	9.997214	31	29	9.114737	9.118452	0.881548	9.996285	31
30	9.053859	9.056661	0.943341	9.997199	30	30	9.115698	9.119429	0.880571	9.996269	30
31	9.054966	9.057781	0.942219	9.997185	29	31	9.116656	9.120404	0.879596	9.996252	29
32	9.056071	9.058900	0.941100	9.997170	28	32	9.117613	9.121377	0.878623	9.996235	28
33	9.057172	9.060016	0.939984	9.997156	27	33	9.118567	9.122348	0.877652	9.996219	27
34	9.058271	9.061130	0.938870	9.997141	26	34	9.119519	9.123317	0.876683	9.996202	26
35	9.059367	9.062240	0.937760	9.997127	25	35	9.120469	9.124284	0.875716	9.996185	25
36	9.060460	9.063348	0.936652	9.997112	24	36	9.121417	9.125249	0.874751	9.996168	24
37	9.061551	9.064453	0.935547	9.997098	23	37	9.122362	9.126211	0.873789	9.996151	23
38	9.062639	9.065556	0.934444	9.997083	22	38	9.123306	9.127172	0.872828	9.996134	22
39	9.063724	9.066655	0.933345	9.997068	21	39	9.124248	9.128130	0.871870	9.996117	21
40	9.064806	9.067752	0.932248	9.997053	20	40	9.125187	9.129087	0.870913	9.996100	20
41	9.065885	9.068846	0.931154	9.997039	19	41	9.126125	9.130041	0.869959	9.996083	19
42	9.066962	9.069938	0.930062	9.997024	18	42	9.127060	9.130994	0.869006	9.996066	18
43	9.068037	9.071027	0.928973	9.997009	17	43	9.127993	9.131944	0.868056	9.996049	17
44	9.069107	9.072113	0.927887	9.996994	16	44	9.128925	9.132893	0.867107	9.996032	16
45	9.070176	9.073197	0.926803	9.996979	15	45	9.129854	9.133839	0.866161	9.996015	15
46	9.071242	9.074278	0.925722	9.996964	14	46	9.130781	9.134784	0.865216	9.995998	14
47	9.072306	9.075356	0.924644	9.996949	13	47	9.131706	9.135726	0.864274	9.995980	13
48	9.073366	9.076432	0.923568	9.996934	12	48	9.132630	9.136667	0.863333	9.995963	12
49	9.074424	9.077505	0.922495	9.996919	11	49	9.133551	9.137605	0.862395	9.995946	11
50	9.075480	9.078576	0.921424	9.996904	10	50	9.134470	9.138542	0.861458	9.995928	10
51	9.076533	9.079644	0.920356	9.996889	9	51	9.135387	9.139476	0.860524	9.995911	9
52	9.077583	9.080710	0.919290	9.996874	8	52	9.136303	9.140409	0.859591	9.995894	8
53	9.078631	9.081773	0.918227	9.996858	7	53	9.137216	9.141340	0.858660	9.995876	7
54	9.079676	9.082833	0.917167	9.996843	6	54	9.138128	9.142269	0.857731	9.995859	6
55	9.080719	9.083891	0.916109	9.996828	5	55	9.139037	9.143196	0.856804	9.995841	5
56	9.081759	9.084947	0.915053	9.996812	4	56	9.139944	9.144121	0.855879	9.995823	4
57	9.082797	9.086000	0.914000	9.996797	3	57	9.140850	9.145044	0.854956	9.995806	3
58	9.083832	9.087050	0.912950	9.996782	2	58	9.141754	9.145966	0.854034	9.995788	2
59	9.084864	9.088098	0.911902	9.996766	1	59	9.142655	9.146885	0.853115	9.995771	1
60	9.085894	9.089144	0.910856	9.996751	0	60	9.143555	9.147803	0.852197	9.995753	0
Cofin. 83 Cotan. 83 Tang. 83 Sin. 83				1	Cofin. 82 Cotan. 82 Tang. 82 Sin. 82				1		



Sin. 8 Tang. 8 Cotang. 8 Cofin. 8				Sin. 9 Tang. 9 Cotang. 9 Cofin. 9							
0	9.143555	9.147803	0.852197	9.995753	60	0	9.194332	9.199713	0.800287	9.994620	60
1	9.144453	9.148718	0.851282	9.995735	59	1	9.195129	9.200529	0.799471	9.994600	59
2	9.145349	9.149632	0.850368	9.995717	58	2	9.195925	9.201345	0.798655	9.994580	58
3	9.146243	9.150544	0.849456	9.995699	57	3	9.196719	9.202159	0.797841	9.994560	57
4	9.147136	9.151454	0.848546	9.995681	56	4	9.197511	9.202971	0.797029	9.994540	56
5	9.148026	9.152363	0.847637	9.995664	55	5	9.198302	9.203782	0.796218	9.994519	55
6	9.148915	9.153269	0.846731	9.995646	54	6	9.199091	9.204592	0.795408	9.994499	54
7	9.149802	9.154174	0.845826	9.995628	53	7	9.199879	9.205400	0.794600	9.994479	53
8	9.150686	9.155077	0.844923	9.995610	52	8	9.200666	9.206207	0.793793	9.994459	52
9	9.151569	9.155978	0.844022	9.995591	51	9	9.201451	9.207013	0.792987	9.994438	51
10	9.152451	9.156877	0.843123	9.995573	50	10	9.202234	9.207817	0.792183	9.994418	50
11	9.153330	9.157775	0.842225	9.995555	49	11	9.203017	9.208619	0.791381	9.994398	49
12	9.154208	9.158671	0.841329	9.995537	48	12	9.203797	9.209420	0.790580	9.994377	48
13	9.155083	9.159565	0.840435	9.995519	47	13	9.204577	9.210220	0.789780	9.994357	47
14	9.155957	9.160457	0.839543	9.995501	46	14	9.205354	9.211018	0.788982	9.994336	46
15	9.156830	9.161347	0.838653	9.995482	45	15	9.206131	9.211815	0.788185	9.994316	45
16	9.157700	9.162236	0.837764	9.995464	44	16	9.206906	9.212611	0.787389	9.994295	44
17	9.158569	9.163123	0.836877	9.995446	43	17	9.207679	9.213408	0.786595	9.994274	43
18	9.159435	9.164008	0.835992	9.995427	42	18	9.208452	9.214205	0.785802	9.994254	42
19	9.160301	9.164892	0.835108	9.995409	41	19	9.209222	9.214999	0.785011	9.994233	41
20	9.161164	9.165774	0.834226	9.995390	40	20	9.209992	9.215780	0.784220	9.994212	40
21	9.162025	9.166654	0.833346	9.995372	39	21	9.210760	9.216568	0.783432	9.994191	39
22	9.162885	9.167532	0.832468	9.995353	38	22	9.211526	9.217356	0.782644	9.994171	38
23	9.163743	9.168409	0.831591	9.995334	37	23	9.212291	9.218142	0.781858	9.994150	37
24	9.164600	9.169284	0.830716	9.995316	36	24	9.213055	9.218926	0.781074	9.994129	36
25	9.165454	9.170157	0.829843	9.995297	35	25	9.213818	9.219710	0.780290	9.994108	35
26	9.166307	9.171029	0.828971	9.995278	34	26	9.214579	9.220492	0.779508	9.994087	34
27	9.167159	9.171899	0.828101	9.995260	33	27	9.215338	9.221272	0.778728	9.994066	33
28	9.168008	9.172767	0.827233	9.995241	32	28	9.216097	9.222052	0.777948	9.994045	32
29	9.168856	9.173634	0.826366	9.995222	31	29	9.216854	9.222830	0.777170	9.994024	31
30	9.169702	9.174499	0.825501	9.995203	30	30	9.217609	9.223607	0.776393	9.994003	30
31	9.170547	9.175362	0.824638	9.995184	29	31	9.218363	9.224382	0.775618	9.993982	29
32	9.171389	9.176224	0.823776	9.995165	28	32	9.219116	9.225156	0.774844	9.993960	28
33	9.172230	9.177084	0.822916	9.995146	27	33	9.219868	9.225929	0.774071	9.993939	27
34	9.173070	9.177942	0.822058	9.995127	26	34	9.220618	9.226700	0.773300	9.993918	26
35	9.173908	9.178799	0.821201	9.995108	25	35	9.221367	9.227471	0.772529	9.993897	25
36	9.174744	9.179655	0.820345	9.995089	24	36	9.222115	9.228239	0.771761	9.993875	24
37	9.175578	9.180508	0.819492	9.995070	23	37	9.222861	9.229007	0.770993	9.993854	23
38	9.176411	9.181360	0.818640	9.995051	22	38	9.223606	9.229773	0.770227	9.993832	22
39	9.177242	9.182211	0.817789	9.995032	21	39	9.224349	9.230539	0.769461	9.993811	21
40	9.178072	9.183059	0.816941	9.995013	20	40	9.225092	9.231302	0.768696	9.993789	20
41	9.178900	9.183907	0.816093	9.994993	19	41	9.225833	9.232065	0.767935	9.993768	19
42	9.179726	9.184752	0.815248	9.994974	18	42	9.226573	9.232826	0.767174	9.993746	18
43	9.180551	9.185597	0.814403	9.994955	17	43	9.227311	9.233586	0.766414	9.993725	17
44	9.181374	9.186439	0.813561	9.994935	16	44	9.228048	9.234345	0.765655	9.993703	16
45	9.182196	9.187280	0.812720	9.994916	15	45	9.228784	9.235103	0.764897	9.993681	15
46	9.183016	9.188120	0.811880	9.994896	14	46	9.229518	9.235859	0.764141	9.993660	14
47	9.183834	9.188958	0.811042	9.994877	13	47	9.230252	9.236614	0.763386	9.993638	13
48	9.184651	9.189794	0.810206	9.994857	12	48	9.230984	9.237368	0.762632	9.993616	12
49	9.185466	9.190629	0.809371	9.994838	11	49	9.231715	9.238120	0.761880	9.993594	11
50	9.186280	9.191462	0.808538	9.994818	10	50	9.232444	9.238872	0.761128	9.993572	10
51	9.187092	9.192294	0.807706	9.994798	9	51	9.233172	9.239622	0.760378	9.993550	9
52	9.187903	9.193124	0.806876	9.994777	8	52	9.233899	9.240371	0.759629	9.993528	8
53	9.188712	9.193952	0.806047	9.994757	7	53	9.234625	9.241118	0.758882	9.993506	7
54	9.189519	9.194780	0.805220	9.994737	6	54	9.235349	9.241865	0.758135	9.993484	6
55	9.190325	9.195606	0.804394	9.994717	5	55	9.236073	9.242610	0.757390	9.993462	5
56	9.191130	9.196430	0.803570	9.994697	4	56	9.236795	9.243354	0.756646	9.993440	4
57	9.191933	9.197253	0.802747	9.994676	3	57	9.237515	9.244097	0.755903	9.993418	3
58	9.192734	9.198074	0.801926	9.994656	2	58	9.238233	9.244839	0.755161	9.993396	2
59	9.193534	9.198894	0.801106	9.994634	1	59	9.238951	9.245579	0.754421	9.993374	1
60	9.194332	9.199713	0.800287	9.994612	0	60	9.239670	9.246319	0.753681	9.993351	0
	Cofin. 81	Cotan. 81	Tang. 81	Sin. 81			Cofin. 80	Cotan. 80	Tang. 80	Sin. 80	



	Sin. 10	Tang. 10	Cotan. 10	Cofin. 10		Sin. 11	Tang. 11	Cotan. 11	Cofin. 11		
0	9.239670	9.246319	0.753681	9.993351	60	0	9.280599	9.288652	0.711348	9.991947	60
1	9.240386	9.247057	0.752943	9.993329	59	1	9.281248	9.289326	0.710674	9.991922	59
2	9.241101	9.247794	0.752206	9.993307	58	2	9.281897	9.289999	0.710001	9.991897	58
3	9.241814	9.248530	0.751470	9.993284	57	3	9.282544	9.290671	0.709329	9.991873	57
4	9.242526	9.249264	0.750736	9.993262	56	4	9.283190	9.291342	0.708658	9.991848	56
5	9.243237	9.249998	0.750002	9.993240	55	5	9.283836	9.292013	0.707987	9.991823	55
6	9.243947	9.250730	0.749270	9.993217	54	6	9.284480	9.292682	0.707318	9.991799	54
7	9.244656	9.251461	0.748539	9.993195	53	7	9.285124	9.293350	0.706650	9.991774	53
8	9.245363	9.252191	0.747809	9.993172	52	8	9.285766	9.294017	0.705983	9.991749	52
9	9.246069	9.252920	0.747080	9.993149	51	9	9.286408	9.294684	0.705316	9.991724	51
10	9.246775	9.253648	0.746352	9.993127	50	10	9.287048	9.295349	0.704651	9.991699	50
11	9.247478	9.254374	0.745626	9.993104	49	11	9.287688	9.296013	0.703987	9.991674	49
12	9.248181	9.255100	0.744900	9.993081	48	12	9.288326	9.296677	0.703323	9.991649	48
13	9.248883	9.255824	0.744176	9.993059	47	13	9.288964	9.297339	0.702661	9.991624	47
14	9.249583	9.256547	0.743453	9.993036	46	14	9.289600	9.298001	0.702000	9.991599	46
15	9.250282	9.257269	0.742731	9.993013	45	15	9.290236	9.298662	0.701338	9.991574	45
16	9.250980	9.257990	0.742010	9.992990	44	16	9.290870	9.299322	0.700678	9.991549	44
17	9.251677	9.258710	0.741290	9.992967	43	17	9.291504	9.299980	0.700020	9.991524	43
18	9.252373	9.259429	0.740571	9.992944	42	18	9.292137	9.300638	0.699362	9.991498	42
19	9.253067	9.260146	0.739854	9.992921	41	19	9.292768	9.301295	0.698705	9.991473	41
20	9.253761	9.260863	0.739137	9.992898	40	20	9.293399	9.301951	0.698049	9.991448	40
21	9.254454	9.261578	0.738422	9.992875	39	21	9.294029	9.302607	0.697393	9.991422	39
22	9.255144	9.262292	0.737708	9.992852	38	22	9.294658	9.303261	0.696739	9.991397	38
23	9.255833	9.263005	0.736995	9.992829	37	23	9.295286	9.303914	0.696086	9.991372	37
24	9.256523	9.263717	0.736283	9.992806	36	24	9.295913	9.304567	0.695433	9.991346	36
25	9.257211	9.264428	0.735572	9.992783	35	25	9.296539	9.305218	0.694782	9.991321	35
26	9.257898	9.265138	0.734862	9.992760	34	26	9.297164	9.305869	0.694131	9.991295	34
27	9.258583	9.265847	0.734153	9.992736	33	27	9.297788	9.306519	0.693481	9.991270	33
28	9.259268	9.266555	0.733445	9.992713	32	28	9.298412	9.307168	0.692832	9.991244	32
29	9.259951	9.267261	0.732739	9.992690	31	29	9.299034	9.307815	0.692184	9.991218	31
30	9.260633	9.267967	0.732033	9.992666	30	30	9.299655	9.308463	0.691537	9.991193	30
31	9.261314	9.268671	0.731329	9.992643	29	31	9.300276	9.309109	0.690891	9.991167	29
32	9.261994	9.269375	0.730624	9.992619	28	32	9.300895	9.309754	0.690246	9.991141	28
33	9.262673	9.270077	0.729919	9.992596	27	33	9.301514	9.310399	0.689601	9.991115	27
34	9.263351	9.270779	0.729211	9.992572	26	34	9.302132	9.311042	0.688958	9.991090	26
35	9.264027	9.271479	0.728521	9.992549	25	35	9.302748	9.311685	0.688315	9.991064	25
36	9.264703	9.272178	0.727822	9.992525	24	36	9.303364	9.312327	0.687673	9.991038	24
37	9.265377	9.272876	0.727124	9.992501	23	37	9.303979	9.312968	0.687032	9.991012	23
38	9.266051	9.273573	0.726427	9.992478	22	38	9.304593	9.313608	0.686392	9.990986	22
39	9.266723	9.274269	0.725731	9.992454	21	39	9.305207	9.314247	0.685753	9.990960	21
40	9.267395	9.274964	0.725036	9.992430	20	40	9.305819	9.314885	0.685115	9.990934	20
41	9.268065	9.275658	0.724342	9.992406	19	41	9.306430	9.315523	0.684477	9.990908	19
42	9.268734	9.276351	0.723649	9.992382	18	42	9.307041	9.316159	0.683841	9.990882	18
43	9.269402	9.277043	0.722957	9.992359	17	43	9.307650	9.316795	0.683205	9.990855	17
44	9.270069	9.277734	0.722266	9.992335	16	44	9.308259	9.317430	0.682570	9.990829	16
45	9.270735	9.278424	0.721576	9.992311	15	45	9.308867	9.318064	0.681936	9.990803	15
46	9.271400	9.279113	0.720887	9.992287	14	46	9.309474	9.318697	0.681303	9.990777	14
47	9.272064	9.279801	0.720199	9.992263	13	47	9.310080	9.319330	0.680670	9.990750	13
48	9.272726	9.280488	0.719512	9.992239	12	48	9.310685	9.319961	0.680039	9.990724	12
49	9.273388	9.281174	0.718826	9.992214	11	49	9.311289	9.320592	0.679408	9.990697	11
50	9.274049	9.281858	0.718142	9.992190	10	50	9.311893	9.321222	0.678778	9.990671	10
51	9.274708	9.282542	0.717458	9.992166	9	51	9.312495	9.321851	0.678149	9.990645	9
52	9.275367	9.283225	0.716775	9.992142	8	52	9.313097	9.322479	0.677521	9.990618	8
53	9.276025	9.283907	0.716093	9.992118	7	53	9.313698	9.323106	0.676894	9.990591	7
54	9.276681	9.284588	0.715412	9.992093	6	54	9.314297	9.323733	0.676267	9.990565	6
55	9.277337	9.285268	0.714732	9.992069	5	55	9.314897	9.324358	0.675642	9.990538	5
56	9.277991	9.285947	0.714053	9.992044	4	56	9.315495	9.324983	0.675017	9.990511	4
57	9.278645	9.286624	0.713375	9.992020	3	57	9.316092	9.325607	0.674393	9.990485	3
58	9.279297	9.287301	0.712699	9.991996	2	58	9.316689	9.326231	0.673769	9.990458	2
59	9.279948	9.287977	0.712023	9.991971	1	59	9.317284	9.326853	0.673147	9.990431	1
60	9.280599	9.288652	0.711348	9.991947	0	60	9.317879	9.327475	0.672525	9.990404	0
	Cofin. 79	Cotan. 79	Tang. 79	Sin. 79		Cofin. 78	Cotan. 78	Tang. 78	Sin. 78		



	Sin. 12	Tang. 12	Cotan. 12	Cofin. 12	
0	9.317879	9.327474	0.672525	9.990404	60
1	9.318473	9.328095	0.671905	9.990378	59
2	9.319066	9.328715	0.671285	9.990351	58
3	9.319658	9.329334	0.670666	9.990324	57
4	9.320249	9.329953	0.670047	9.990297	56
5	9.320840	9.330570	0.669430	9.990270	55
6	9.321430	9.331187	0.668813	9.990243	54
7	9.322019	9.331803	0.668197	9.990215	53
8	9.322607	9.332418	0.667582	9.990188	52
9	9.323194	9.333033	0.666967	9.990161	51
10	9.323780	9.333646	0.666354	9.990134	50
11	9.324366	9.334259	0.665741	9.990107	49
12	9.324950	9.334871	0.665129	9.990079	48
13	9.325534	9.335482	0.664518	9.990052	47
14	9.326117	9.336093	0.663907	9.990025	46
15	9.326700	9.336702	0.663298	9.989997	45
16	9.327281	9.337311	0.662689	9.989970	44
17	9.327862	9.337919	0.662081	9.989942	43
18	9.328442	9.338527	0.661473	9.989915	42
19	9.329021	9.339133	0.660867	9.989887	41
20	9.329599	9.339739	0.660261	9.989860	40
21	9.330176	9.340344	0.659656	9.989832	39
22	9.330752	9.340948	0.659052	9.989804	38
23	9.331329	9.341552	0.658448	9.989777	37
24	9.331903	9.342155	0.657845	9.989749	36
25	9.332478	9.342757	0.657243	9.989721	35
26	9.333051	9.343358	0.656642	9.989693	34
27	9.333624	9.343958	0.656042	9.989665	33
28	9.334195	9.344558	0.655442	9.989637	32
29	9.334767	9.345157	0.654843	9.989610	31
30	9.335337	9.345755	0.654245	9.989582	30
31	9.335906	9.346353	0.653647	9.989553	29
32	9.336475	9.346949	0.653051	9.989525	28
33	9.337043	9.347545	0.652455	9.989497	27
34	9.337610	9.348141	0.651859	9.989469	26
35	9.338176	9.348735	0.651265	9.989441	25
36	9.338742	9.349329	0.650671	9.989413	24
37	9.339307	9.349922	0.650078	9.989385	23
38	9.339871	9.350514	0.649486	9.989356	22
39	9.340434	9.351106	0.648894	9.989328	21
40	9.340996	9.351697	0.648303	9.989300	20
41	9.341558	9.352287	0.647713	9.989271	19
42	9.342119	9.352876	0.647124	9.989243	18
43	9.342679	9.353465	0.646535	9.989214	17
44	9.343239	9.354053	0.645947	9.989186	16
45	9.343797	9.354640	0.645360	9.989157	15
46	9.344355	9.355227	0.644773	9.989128	14
47	9.344912	9.355813	0.644187	9.989100	13
48	9.345469	9.356398	0.643602	9.989071	12
49	9.346024	9.356982	0.643018	9.989042	11
50	9.346579	9.357566	0.642434	9.989014	10
51	9.347134	9.358149	0.641851	9.988985	9
52	9.347687	9.358731	0.641269	9.988956	8
53	9.348240	9.359313	0.640687	9.988927	7
54	9.348792	9.359893	0.640107	9.988898	6
55	9.349343	9.360474	0.639526	9.988869	5
56	9.349893	9.361053	0.638947	9.988840	4
57	9.350443	9.361632	0.638368	9.988811	3
58	9.350992	9.362210	0.637790	9.988782	2
59	9.351540	9.362787	0.637213	9.988753	1
60	9.352088	9.363364	0.636636	9.988724	0
	Cofin. 77	Cotan. 77	Tang. 77	Sin. 77	

	Sin. 13	Tang. 13	Cotan. 13	Cofin. 13	
0	9.352088	9.363364	0.636636	9.988724	60
1	9.352635	9.363940	0.636060	9.988695	59
2	9.353181	9.364515	0.635485	9.988666	58
3	9.353726	9.365090	0.634910	9.988636	57
4	9.354271	9.365664	0.634336	9.988607	56
5	9.354815	9.366237	0.633763	9.988578	55
6	9.355358	9.366810	0.633190	9.988548	54
7	9.355901	9.367382	0.632618	9.988519	53
8	9.356443	9.367953	0.632047	9.988489	52
9	9.356984	9.368524	0.631476	9.988460	51
10	9.357524	9.369094	0.630906	9.988430	50
11	9.358064	9.369663	0.630337	9.988401	49
12	9.358603	9.370232	0.629768	9.988371	48
13	9.359141	9.370799	0.629201	9.988342	47
14	9.359678	9.371367	0.628633	9.988312	46
15	9.360215	9.371933	0.628067	9.988282	45
16	9.360752	9.372499	0.627501	9.988252	44
17	9.361287	9.373064	0.626936	9.988223	43
18	9.361822	9.373629	0.626371	9.988193	42
19	9.362356	9.374193	0.625807	9.988163	41
20	9.362889	9.374756	0.625244	9.988133	40
21	9.363422	9.375319	0.624681	9.988103	39
22	9.363954	9.375881	0.624119	9.988073	38
23	9.364485	9.376442	0.623558	9.988043	37
24	9.365016	9.377002	0.622997	9.988013	36
25	9.365546	9.377563	0.622437	9.987983	35
26	9.366075	9.378122	0.621878	9.987953	34
27	9.366604	9.378681	0.621319	9.987922	33
28	9.367131	9.379239	0.620761	9.987892	32
29	9.367659	9.379797	0.620203	9.987862	31
30	9.368185	9.380354	0.619646	9.987832	30
31	9.368711	9.380910	0.619090	9.987801	29
32	9.369236	9.381466	0.618534	9.987771	28
33	9.369761	9.382020	0.617980	9.987740	27
34	9.370285	9.382575	0.617425	9.987710	26
35	9.370808	9.383129	0.616871	9.987679	25
36	9.371330	9.383682	0.616318	9.987649	24
37	9.371852	9.384234	0.615766	9.987618	23
38	9.372373	9.384786	0.615214	9.987588	22
39	9.372894	9.385337	0.614663	9.987557	21
40	9.373414	9.385888	0.614112	9.987526	20
41	9.373933	9.386438	0.613562	9.987496	19
42	9.374452	9.386987	0.613013	9.987465	18
43	9.374970	9.387536	0.612464	9.987434	17
44	9.375487	9.388084	0.611916	9.987403	16
45	9.376003	9.388631	0.611369	9.987372	15
46	9.376519	9.389178	0.610822	9.987341	14
47	9.377035	9.389724	0.610276	9.987310	13
48	9.377549	9.390270	0.609730	9.987279	12
49	9.378063	9.390815	0.609185	9.987248	11
50	9.378577	9.391360	0.608640	9.987217	10
51	9.379089	9.391903	0.608097	9.987186	9
52	9.379601	9.392447	0.607553	9.987155	8
53	9.380113	9.392989	0.607011	9.987124	7
54	9.380624	9.393531	0.606469	9.987092	6
55	9.381134	9.394073	0.605927	9.987061	5
56	9.381643	9.394614	0.605386	9.987030	4
57	9.382152	9.395154	0.604846	9.986998	3
58	9.382661	9.395694	0.604306	9.986967	2
59	9.383168	9.396233	0.603767	9.986936	1
60	9.383675	9.396771	0.603229	9.986904	0
	Cofin. 76	Cotan. 76	Tang. 76	Sin. 76	



	Sin. 14	Tang. 14	Cotan. 14	Cofin. 14		Sin. 15	Tang. 15	Cotan. 15	Cofin. 15	
0	9.383675	9.396771	0.603229	9.986904	60	9.412996	9.428052	0.571948	9.984944	60
1	9.384182	9.397309	0.602691	9.986873	59	9.413467	9.428558	0.571442	9.984910	59
2	9.384687	9.397846	0.602154	9.986841	58	9.413938	9.429062	0.570938	9.984876	58
3	9.385192	9.398383	0.601617	9.986809	57	9.414408	9.429566	0.570434	9.984842	57
4	9.385697	9.398919	0.601081	9.986778	56	9.414878	9.430070	0.569930	9.984808	56
5	9.386201	9.399455	0.600545	9.986746	55	9.415347	9.430573	0.569427	9.984774	55
6	9.386704	9.399990	0.600010	9.986714	54	9.415815	9.431075	0.568925	9.984740	54
7	9.387207	9.400524	0.599476	9.986683	53	9.416283	9.431577	0.568423	9.984706	53
8	9.387709	9.401058	0.598942	9.986651	52	9.416751	9.432079	0.567921	9.984672	52
9	9.388210	9.401591	0.598409	9.986619	51	9.417217	9.432580	0.567420	9.984638	51
10	9.388711	9.402124	0.597876	9.986587	50	9.417684	9.433080	0.566920	9.984603	50
11	9.389211	9.402656	0.597344	9.986555	49	9.418150	9.433580	0.566420	9.984569	49
12	9.389711	9.403187	0.596813	9.986523	48	9.418615	9.434080	0.565920	9.984535	48
13	9.390210	9.403718	0.596282	9.986491	47	9.419079	9.434579	0.565421	9.984500	47
14	9.390708	9.404249	0.595751	9.986459	46	9.419544	9.435078	0.564922	9.984466	46
15	9.391206	9.404778	0.595222	9.986427	45	9.420007	9.435576	0.564424	9.984432	45
16	9.391703	9.405308	0.594692	9.986395	44	9.420470	9.436073	0.563927	9.984397	44
17	9.392199	9.405836	0.594164	9.986363	43	9.420933	9.436570	0.563430	9.984363	43
18	9.392695	9.406364	0.593636	9.986331	42	9.421395	9.437067	0.562933	9.984328	42
19	9.393191	9.406892	0.593108	9.986299	41	9.421857	9.437563	0.562437	9.984294	41
20	9.393685	9.407419	0.592581	9.986266	40	9.422318	9.438059	0.561941	9.984259	40
21	9.394179	9.407945	0.592055	9.986234	39	9.422778	9.438554	0.561446	9.984224	39
22	9.394673	9.408471	0.591529	9.986202	38	9.423238	9.439048	0.560952	9.984190	38
23	9.395166	9.408996	0.591004	9.986169	37	9.423697	9.439543	0.560457	9.984155	37
24	9.395658	9.409521	0.590479	9.986137	36	9.424156	9.440036	0.559964	9.984120	36
25	9.396150	9.410045	0.589955	9.986104	35	9.424615	9.440529	0.559471	9.984085	35
26	9.396641	9.410569	0.589431	9.986072	34	9.425073	9.441022	0.558978	9.984050	34
27	9.397132	9.411092	0.588908	9.986039	33	9.425530	9.441514	0.558486	9.984015	33
28	9.397621	9.411615	0.588385	9.986007	32	9.425987	9.442006	0.557994	9.983981	32
29	9.398111	9.412137	0.587863	9.985974	31	9.426443	9.442497	0.557503	9.983946	31
30	9.398600	9.412658	0.587342	9.985942	30	9.426899	9.442988	0.557012	9.983911	30
31	9.399088	9.413179	0.586821	9.985909	29	9.427354	9.443479	0.556521	9.983875	29
32	9.399575	9.413699	0.586301	9.985876	28	9.427809	9.443968	0.556032	9.983840	28
33	9.400062	9.414219	0.585781	9.985843	27	9.428263	9.444458	0.555542	9.983805	27
34	9.400549	9.414738	0.585262	9.985811	26	9.428717	9.444947	0.555053	9.983770	26
35	9.401035	9.415257	0.584743	9.985778	25	9.429170	9.445435	0.554565	9.983735	25
36	9.401520	9.415775	0.584225	9.985745	24	9.429623	9.445923	0.554077	9.983700	24
37	9.402005	9.416293	0.583707	9.985712	23	9.430075	9.446411	0.553589	9.983664	23
38	9.402489	9.416810	0.583190	9.985679	22	9.430527	9.446898	0.553102	9.983629	22
39	9.402972	9.417326	0.582674	9.985646	21	9.430978	9.447384	0.552616	9.983594	21
40	9.403455	9.417842	0.582158	9.985613	20	9.431429	9.447870	0.552130	9.983558	20
41	9.403938	9.418358	0.581642	9.985580	19	9.431879	9.448356	0.551644	9.983523	19
42	9.404420	9.418873	0.581127	9.985547	18	9.432329	9.448841	0.551159	9.983487	18
43	9.404901	9.419387	0.580613	9.985514	17	9.432778	9.449326	0.550674	9.983452	17
44	9.405382	9.419901	0.580099	9.985480	16	9.433226	9.449810	0.550190	9.983416	16
45	9.405862	9.420415	0.579585	9.985447	15	9.433675	9.450294	0.549706	9.983381	15
46	9.406341	9.420927	0.579073	9.985414	14	9.434122	9.450777	0.549223	9.983345	14
47	9.406820	9.421440	0.578560	9.985381	13	9.434569	9.451260	0.548740	9.983309	13
48	9.407299	9.421952	0.578048	9.985347	12	9.435016	9.451743	0.548257	9.983273	12
49	9.407777	9.422463	0.577537	9.985314	11	9.435462	9.452225	0.547775	9.983238	11
50	9.408254	9.422974	0.577026	9.985280	10	9.435908	9.452706	0.547294	9.983202	10
51	9.408731	9.423484	0.576516	9.985247	9	9.436353	9.453187	0.546813	9.983166	9
52	9.409207	9.423993	0.576007	9.985213	8	9.436798	9.453668	0.546332	9.983130	8
53	9.409682	9.424503	0.575497	9.985180	7	9.437242	9.454148	0.545852	9.983094	7
54	9.410157	9.425011	0.574989	9.985146	6	9.437686	9.454628	0.545372	9.983058	6
55	9.410632	9.425519	0.574481	9.985113	5	9.438129	9.455107	0.544893	9.983022	5
56	9.411106	9.426027	0.573973	9.985079	4	9.438572	9.455586	0.544414	9.982986	4
57	9.411579	9.426534	0.573466	9.985045	3	9.439014	9.456064	0.543936	9.982950	3
58	9.412052	9.427041	0.572959	9.985011	2	9.439456	9.456542	0.543457	9.982914	2
59	9.412524	9.427547	0.572453	9.984978	1	9.439897	9.457019	0.542978	9.982878	1
60	9.412996	9.428052	0.571948	9.984944	0	9.440338	9.457495	0.542500	9.982842	0



				(10)							
Sin. 16	Tang. 16	Cotan. 16	Cofin. 16	Sin. 17	Tang. 17	Cotan. 17	Cofin. 17	Sin. 17	Tang. 17	Cotan. 17	Cofin. 17
0	9.440338	9.457491	0.542504	9.982842	60	0	9.465935	9.485339	0.514661	9.980596	60
1	9.44078	9.457973	0.542027	9.982805	59	1	9.466348	9.485779	0.514209	9.980558	59
2	9.441218	9.458449	0.541551	9.982769	58	2	9.466761	9.486242	0.513758	9.980519	58
3	9.441658	9.458925	0.541075	9.982733	57	3	9.467173	9.486693	0.513307	9.980480	57
4	9.442096	9.459400	0.540600	9.982696	56	4	9.467585	9.487143	0.512857	9.980442	56
5	9.442535	9.459875	0.540125	9.982660	55	5	9.467996	9.487593	0.512407	9.980403	55
6	9.442973	9.460349	0.539651	9.982624	54	6	9.468407	9.488043	0.511957	9.980364	54
7	9.443410	9.460823	0.539177	9.982587	53	7	9.468817	9.488492	0.511508	9.980325	53
8	9.443847	9.461297	0.538703	9.982551	52	8	9.469227	9.488941	0.511059	9.980286	52
9	9.444284	9.461770	0.538230	9.982514	51	9	9.469637	9.489390	0.510610	9.980247	51
10	9.444720	9.462244	0.537758	9.982477	50	10	9.470046	9.489838	0.510162	9.980208	50
11	9.445155	9.462715	0.537285	9.982441	49	11	9.470455	9.490286	0.509714	9.980169	49
12	9.445590	9.463186	0.536814	9.982404	48	12	9.470863	9.490733	0.509267	9.980130	48
13	9.446025	9.463658	0.536342	9.982367	47	13	9.471271	9.491180	0.508820	9.980090	47
14	9.446459	9.464128	0.535872	9.982331	46	14	9.471679	9.491627	0.508372	9.980052	46
15	9.446893	9.464599	0.535401	9.982294	45	15	9.472086	9.492073	0.507927	9.980012	45
16	9.447326	9.465069	0.534931	9.982257	44	16	9.472492	9.492519	0.507481	9.979973	44
17	9.447759	9.465539	0.534461	9.982220	43	17	9.472898	9.492965	0.507035	9.979934	43
18	9.448191	9.466008	0.533992	9.982183	42	18	9.473304	9.493410	0.506590	9.979895	42
19	9.448623	9.466477	0.533523	9.982146	41	19	9.473710	9.493854	0.506146	9.979855	41
20	9.449054	9.466945	0.533055	9.982109	40	20	9.474115	9.494299	0.505701	9.979816	40
21	9.449485	9.467413	0.532587	9.982072	39	21	9.474519	9.494743	0.505257	9.979776	39
22	9.449915	9.467880	0.532120	9.982035	38	22	9.474923	9.495186	0.504814	9.979737	38
23	9.450345	9.468347	0.531653	9.981998	37	23	9.475327	9.495630	0.504370	9.979697	37
24	9.450775	9.468814	0.531186	9.981961	36	24	9.475730	9.496073	0.503927	9.979658	36
25	9.451204	9.469280	0.530720	9.981924	35	25	9.476133	9.496515	0.503485	9.979618	35
26	9.451632	9.469746	0.530254	9.981886	34	26	9.476536	9.496957	0.503043	9.979579	34
27	9.452060	9.470211	0.529789	9.981849	33	27	9.476938	9.497399	0.502601	9.979539	33
28	9.452488	9.470676	0.529324	9.981812	32	28	9.477340	9.497841	0.502159	9.979499	32
29	9.452915	9.471141	0.528859	9.981774	31	29	9.477741	9.498282	0.501718	9.979459	31
30	9.453342	9.471605	0.528395	9.981737	30	30	9.478142	9.498722	0.501278	9.979420	30
31	9.453768	9.472069	0.527931	9.981700	29	31	9.478544	9.499163	0.500837	9.979380	29
32	9.454194	9.472532	0.527468	9.981662	28	32	9.478942	9.499603	0.500397	9.979340	28
33	9.454619	9.472995	0.527005	9.981625	27	33	9.479342	9.500042	0.499958	9.979300	27
34	9.455044	9.473457	0.526543	9.981587	26	34	9.479741	9.500481	0.499519	9.979260	26
35	9.455469	9.473919	0.526081	9.981549	25	35	9.480140	9.500920	0.499080	9.979220	25
36	9.455893	9.474381	0.525619	9.981512	24	36	9.480539	9.501359	0.498641	9.979180	24
37	9.456316	9.474842	0.525158	9.981474	23	37	9.480937	9.501797	0.498203	9.979140	23
38	9.456739	9.475303	0.524697	9.981435	22	38	9.481334	9.502235	0.497765	9.979100	22
39	9.457162	9.475763	0.524237	9.981397	21	39	9.481731	9.502672	0.497328	9.979059	21
40	9.457584	9.476223	0.523777	9.981361	20	40	9.482128	9.503109	0.496891	9.979019	20
41	9.458006	9.476683	0.523317	9.981323	19	41	9.482525	9.503546	0.496454	9.978979	19
42	9.458427	9.477142	0.522858	9.981285	18	42	9.482921	9.503982	0.496018	9.978939	18
43	9.458848	9.477601	0.522399	9.981247	17	43	9.483316	9.504418	0.495582	9.978898	17
44	9.459268	9.478059	0.521941	9.981209	16	44	9.483712	9.504854	0.495146	9.978858	16
45	9.459688	9.478517	0.521483	9.981171	15	45	9.484107	9.505289	0.494711	9.978817	15
46	9.460108	9.478975	0.521025	9.981133	14	46	9.484501	9.505724	0.494276	9.978777	14
47	9.460527	9.479432	0.520568	9.981095	13	47	9.484895	9.506159	0.493841	9.978737	13
48	9.460946	9.479889	0.520111	9.981057	12	48	9.485289	9.506593	0.493407	9.978696	12
49	9.461364	9.480345	0.519655	9.981019	11	49	9.485682	9.507027	0.492972	9.978655	11
50	9.461782	9.480801	0.519199	9.980981	10	50	9.486075	9.507460	0.492540	9.978615	10
51	9.462199	9.481257	0.518743	9.980942	9	51	9.486467	9.507893	0.492107	9.978574	9
52	9.462616	9.481712	0.518288	9.980904	8	52	9.486860	9.508326	0.491674	9.978533	8
53	9.463032	9.482167	0.517833	9.980866	7	53	9.487251	9.508759	0.491241	9.978493	7
54	9.463448	9.482621	0.517379	9.980827	6	54	9.487643	9.509191	0.490809	9.978452	6
55	9.463864	9.483075	0.516925	9.980789	5	55	9.488034	9.509622	0.490378	9.978411	5
56	9.464279	9.483529	0.516471	9.980750	4	56	9.488424	9.510054	0.489946	9.978370	4
57	9.464694	9.483982	0.516018	9.980712	3	57	9.488814	9.510485	0.489515	9.978329	3
58	9.465108	9.484435	0.515565	9.980673	2	58	9.489204	9.510916	0.489084	9.978288	2
59	9.465522	9.484887	0.515113	9.980635	1	59	9.489593	9.511346	0.488654	9.978247	1
60	9.465935	9.485339	0.514661	9.980596	0	60	9.489982	9.511776	0.488224	9.978206	0
	Cofin. 73	Cotan. 73	Tang. 73	Sin. 73			Cofin. 72	Cotan. 72	Tang. 72	Sin. 72	



				(11)							
Sin. 18	Tang. 18	Cotan. 18	Cofin. 18	Sin. 19	Tang. 19	Cotan. 19	Cofin. 19	Sin. 19	Tang. 19	Cotan. 19	Cofin. 19
0	9.489982	9.511776	0.488224	9.978206	60	0	9.512642	9.536972	0.463028	9.975670	60
1	9.490371	9.512206	0.487794	9.978165	59	1	9.513009	9.537382	0.462618	9.975627	59
2	9.490759	9.512635	0.487365	9.978124	58	2	9.513375	9.537792	0.462208	9.975583	58
3	9.491147	9.513064	0.486936	9.978083	57	3	9.513741	9.538202	0.461798	9.975539	57
4	9.491535	9.513493	0.486507	9.978042	56	4	9.514107	9.538611	0.461389	9.975496	56
5	9.491922	9.513921	0.486079	9.978001	55	5	9.514472	9.539020	0.460980	9.975452	55
6	9.492308	9.514349	0.485651	9.977959	54	6	9.514837	9.539429	0.460571	9.975408	54
7	9.492695	9.514777	0.485223	9.977918	53	7	9.515202	9.539837	0.460163	9.975365	53
8	9.493081	9.515204	0.484796	9.977877	52	8	9.515566	9.540245	0.459755	9.975321	52
9	9.493466	9.515631	0.484369	9.977835	51	9	9.515930	9.540653	0.459347	9.975277	51
10	9.493851	9.516057	0.483943	9.977794	50	10	9.516294	9.541061	0.458939	9.975233	50
11	9.494236	9.516484	0.483516	9.977752	49	11	9.516657	9.541468	0.458532	9.975189	49
12	9.494621	9.516910	0.483090	9.977711	48	12	9.517020	9.541875	0.458125	9.975145	48
13	9.495005	9.517335	0.482665	9.977669	47	13	9.517382	9.542281	0.457719	9.975101	47
14	9.495388	9.517761	0.482239	9.977628	46	14	9.517745	9.542688	0.457312	9.975057	46
15	9.495772	9.518186	0.481814	9.977586	45	15	9.518107	9.543094	0.456906	9.975013	45
16	9.496154	9.518610	0.481390	9.977544	44	16	9.518468	9.543499	0.456501	9.974969	44
17	9.496537	9.519034	0.480966	9.977503	43	17	9.518829	9.543905	0.456095	9.974925	43
18	9.496919	9.519458	0.480542	9.977461	42	18	9.519190	9.544310	0.455690	9.974880	42
19	9.497301	9.519882	0.480118	9.977419	41	19	9.519551	9.544715	0.455285	9.974836	41
20	9.497682	9.520305	0.479695	9.977377	40	20	9.519911	9.545119	0.454881	9.974792	40
21	9.498064	9.520728	0.479272	9.977335	39	21	9.520271	9.545524	0.454476	9.974748	39
22	9.498444	9.521151	0.478849	9.977293	38	22	9.520631	9.545928	0.454072	9.974703	38
23	9.498825	9.521573	0.478427	9.977251	37	23	9.520990	9.546331	0.453669	9.974659	37
24	9.499204	9.521995	0.478005	9.977209	36	24	9.521349	9.546735	0.453265	9.974614	36
25	9.499584	9.522417	0.477583	9.977167	35	25	9.521707	9.547138	0.452862	9.974570	35
26	9.499963	9.522838	0.477162	9.977125	34	26	9.522066	9.547540	0.452460	9.974525	34
27	9.500342	9.523259	0.476741	9.977083	33	27	9.522424	9.547943	0.452057	9.974481	33
28	9.500721	9.523680	0.476320	9.977041	32	28	9.522781	9.548345	0.451655	9.974436	32
29	9.501099	9.524100	0.475900	9.976999	31	29	9.523138	9.548747	0.451253	9.974391	31
30	9.501476	9.524520	0.475480	9.976957	30	30	9.523495	9.549149	0.450851	9.974347	30
31	9.501854	9.524940	0.475060	9.976914	29	31	9.523852	9.549550	0.450450	9.974302	29
32	9.502231	9.525359	0.474641	9.976872	28	32	9.524208	9.549951	0.450049	9.974257	28
33	9.502607	9.525778	0.474222	9.976830	27	33	9.524564	9.550352	0.449648	9.974212	27
34	9.502984	9.526197	0.473803	9.976787	26	34	9.524920	9.550752	0.449248	9.974167	26
35	9.503360	9.526615	0.473385	9.976745	25	35	9.525275	9.551153	0.448847	9.974122	25
36	9.503735	9.527033	0.472967	9.976702	24	36	9.525630	9.551552	0.448448	9.974077	24
37	9.504110	9.527451	0.472549	9.976660	23	37	9.525984	9.551952	0.448048	9.974032	23
38	9.504485	9.527868	0.472132	9.976617	22	38	9.526339	9.552351	0.447649	9.973987	22
39	9.504860	9.528285	0.471715	9.976574	21	39	9.526693	9.552750	0.447250	9.973942	21
40	9.505234	9.528702	0.471298	9.976532	20	40	9.527046	9.553149	0.446851	9.973897	20
41	9.505608	9.529119	0.470881	9.976489	19	41	9.527400	9.553548	0.446452	9.973852	19
42	9.505981	9.529535	0.470465	9.976446	18	42	9.527753	9.553946	0.446054	9.973807	18
43	9.506354	9.529951	0.470049	9.976404	17	43	9.528105	9.554344	0.445656	9.973761	17
44	9.506727	9.530366	0.469634	9.976361	16	44	9.528458	9.554741	0.445259	9.973716	16
45	9.507099	9.530781	0.469219	9.976318	15	45	9.528810	9.555139	0.444861	9.973671	15
46	9.507471	9.531196	0.468804	9.976275	14	46	9.529161	9.555536	0.444464	9.973625	14
47	9.507843	9.531611	0.468389	9.976232	13	47	9.529513	9.555933	0.444067	9.973580	13
48	9.508214	9.532025	0.467975	9.976189	12	48	9.529864	9.556329	0.443671	9.973535	12
49	9.508585	9.532439	0.467561	9.976146	11	49	9.530215	9.556725	0.443275	9.973489	11
50	9.508956	9.532853	0.467147	9.976103	10	50	9.530565	9.557121	0.442879	9.973444	10
51	9.509326	9.533266	0.466734	9.976060	9	51	9.530915	9.557517	0.442483	9.973398	9
52	9.509696	9.533679	0.466321	9.976017	8	52	9.531265	9.557913	0.442087	9.973352	8
53	9.510065	9.534092	0.465908	9.975974	7	53	9.531614	9.558308	0.441692	9.973307	7
54	9.510434	9.534504	0.465496	9.975930	6	54	9.531963	9.558703	0.441297	9.973261	6
55	9.510803	9.534916	0.465084	9.975887	5	55	9.532312	9.559097	0.440903	9.973215	5
56	9.511172	9.535328	0.464672	9.975844	4	56	9.532661	9.559491	0.440509	9.973169	4
57	9.511540	9.535739	0.464261	9.975800	3	57	9.533009	9.559885	0.440115	9.973124	3
58	9.511907	9.536150	0.463850	9.975757	2	58	9.533357	9.560279	0.439721	9.973078	2
59	9.512275	9.536561	0.463439	9.975714	1	59	9.533704	9.560673	0.439327	9.973032	1
60	9.512642	9.536972	0.463028	9.975670	0	60	9.534052	9.561066	0.438934	9.972986	0
Cofin. 71	Cotan. 71	Tang. 71	Sin. 71			Cofin. 70	Cotan. 70	Tang. 70	Sin. 70		



Table 1 (Left)				Table 2 (Right)			
Sin.	Tang.	Cotan.	Cofin.	Sin.	Tang.	Cotan.	Cofin.
0 9.534052	9.561066	0.438934	9.972986	0 9.554329	9.584177	0.415823	9.970152
1 9.534399	9.561459	0.438541	9.972940	1 9.554658	9.584555	0.415445	9.970103
2 9.534745	9.561851	0.438149	9.972894	2 9.554987	9.584932	0.415068	9.970055
3 9.535092	9.562244	0.437756	9.972848	3 9.555315	9.585309	0.414691	9.970006
4 9.535438	9.562636	0.437364	9.972802	4 9.555643	9.585686	0.414314	9.969957
5 9.535783	9.563028	0.436972	9.972755	5 9.555971	9.586062	0.413938	9.969909
6 9.536129	9.563419	0.436581	9.972709	6 9.556299	9.586439	0.413561	9.969860
7 9.536474	9.563811	0.436189	9.972663	7 9.556626	9.586815	0.413181	9.969811
8 9.536818	9.564202	0.435798	9.972617	8 9.556953	9.587190	0.412800	9.969762
9 9.537163	9.564593	0.435407	9.972570	9 9.557280	9.587566	0.412424	9.969714
10 9.537507	9.564983	0.435017	9.972524	10 9.557606	9.587941	0.412059	9.969665
11 9.537851	9.565373	0.434627	9.972478	11 9.557932	9.588316	0.411684	9.969616
12 9.538194	9.565763	0.434237	9.972431	12 9.558258	9.588691	0.411309	9.969567
13 9.538538	9.566153	0.433847	9.972385	13 9.558583	9.589066	0.410934	9.969518
14 9.538880	9.566542	0.433458	9.972338	14 9.558909	9.589440	0.410560	9.969469
15 9.539223	9.566932	0.433068	9.972291	15 9.559234	9.589814	0.410186	9.969420
16 9.539565	9.567320	0.432680	9.972245	16 9.559558	9.590188	0.409812	9.969371
17 9.539907	9.567709	0.432291	9.972198	17 9.559883	9.590562	0.409438	9.969321
18 9.540249	9.568098	0.431902	9.972151	18 9.560207	9.590935	0.409065	9.969272
19 9.540590	9.568486	0.431514	9.972105	19 9.560531	9.591308	0.408692	9.969223
20 9.540931	9.568873	0.431127	9.972058	20 9.560855	9.591681	0.408319	9.969173
21 9.541272	9.569261	0.430739	9.972011	21 9.561178	9.592054	0.407946	9.969124
22 9.541613	9.569648	0.430352	9.971964	22 9.561501	9.592426	0.407574	9.969075
23 9.541953	9.570035	0.429965	9.971917	23 9.561824	9.592799	0.407201	9.969025
24 9.542293	9.570422	0.429578	9.971870	24 9.562146	9.593171	0.406829	9.968976
25 9.542632	9.570809	0.429191	9.971823	25 9.562468	9.593542	0.406456	9.968926
26 9.542971	9.571195	0.428805	9.971776	26 9.562790	9.593914	0.406086	9.968877
27 9.543310	9.571581	0.428419	9.971729	27 9.563112	9.594285	0.405715	9.968827
28 9.543649	9.571967	0.428033	9.971682	28 9.563433	9.594656	0.405344	9.968777
29 9.543987	9.572352	0.427648	9.971635	29 9.563755	9.595027	0.404973	9.968728
30 9.544325	9.572738	0.427262	9.971588	30 9.564075	9.595398	0.404602	9.968678
31 9.544663	9.573123	0.426877	9.971540	31 9.564396	9.595768	0.404232	9.968628
32 9.545000	9.573507	0.426491	9.971493	32 9.564716	9.596138	0.403862	9.968578
33 9.545338	9.573892	0.426108	9.971446	33 9.565036	9.596508	0.403492	9.968528
34 9.545674	9.574276	0.425724	9.971398	34 9.565356	9.596878	0.403122	9.968479
35 9.546011	9.574660	0.425340	9.971351	35 9.565676	9.597247	0.402753	9.968429
36 9.546347	9.575044	0.424956	9.971303	36 9.565995	9.597616	0.402384	9.968379
37 9.546683	9.575427	0.424573	9.971256	37 9.566314	9.597985	0.402015	9.968329
38 9.547019	9.575810	0.424190	9.971208	38 9.566632	9.598354	0.401646	9.968278
39 9.547354	9.576193	0.423807	9.971161	39 9.566951	9.598722	0.401278	9.968228
40 9.547689	9.576576	0.423424	9.971113	40 9.567269	9.599091	0.400909	9.968178
41 9.548024	9.576959	0.423041	9.971066	41 9.567587	9.599459	0.400541	9.968128
42 9.548359	9.577341	0.422659	9.971018	42 9.567904	9.599827	0.400173	9.968078
43 9.548693	9.577723	0.422277	9.970970	43 9.568222	9.600194	0.399805	9.968027
44 9.549027	9.578104	0.421896	9.970922	44 9.568539	9.600562	0.399438	9.967977
45 9.549360	9.578486	0.421514	9.970874	45 9.568856	9.600929	0.399071	9.967927
46 9.549693	9.578867	0.421133	9.970827	46 9.569172	9.601296	0.398704	9.967876
47 9.550026	9.579248	0.420752	9.970779	47 9.569488	9.601663	0.398337	9.967826
48 9.550359	9.579629	0.420371	9.970731	48 9.569804	9.602029	0.397971	9.967775
49 9.550692	9.580009	0.419991	9.970683	49 9.570120	9.602395	0.397605	9.967725
50 9.551024	9.580389	0.419611	9.970635	50 9.570435	9.602761	0.397239	9.967674
51 9.551356	9.580769	0.419231	9.970586	51 9.570751	9.603127	0.396873	9.967624
52 9.551687	9.581149	0.418851	9.970538	52 9.571066	9.603493	0.396507	9.967573
53 9.552018	9.581528	0.418472	9.970490	53 9.571380	9.603858	0.396142	9.967522
54 9.552349	9.581907	0.418093	9.970442	54 9.571695	9.604223	0.395777	9.967471
55 9.552680	9.582286	0.417714	9.970394	55 9.572009	9.604588	0.395412	9.967421
56 9.553010	9.582665	0.417335	9.970345	56 9.572323	9.604953	0.395047	9.967370
57 9.553341	9.583044	0.416956	9.970297	57 9.572636	9.605317	0.394683	9.967319
58 9.553670	9.583422	0.416578	9.970249	58 9.572950	9.605682	0.394318	9.967268
59 9.554000	9.583800	0.416200	9.970200	59 9.573263	9.606046	0.393954	9.967217
60 9.554329	9.584177	0.415823	9.970152	60 9.573575	9.606410	0.393590	9.967166
Cofin. 69	Cotan. 69	Tang. 69	Sin. 69	Cofin. 68	Cotan. 68	Tang. 68	Sin. 68



Sin. 22 Tang. 22 Cotan. 22 Cofin. 22				Sin. 23 Tang. 23 Cotan. 23 Cofin. 23							
0	9.573575	9.606410	0.393590	9.967166	60	0	9.591878	9.627852	0.372148	9.964026	60
1	9.573888	9.606773	0.393227	9.967115	59	1	9.592176	9.628203	0.371797	9.963972	59
2	9.574200	9.607137	0.392863	9.967064	58	2	9.592473	9.628554	0.371446	9.963919	58
3	9.574512	9.607500	0.392500	9.967013	57	3	9.592770	9.628905	0.371095	9.963866	57
4	9.574824	9.607863	0.392137	9.966961	56	4	9.593067	9.629255	0.370745	9.963811	56
5	9.575136	9.608225	0.391775	9.966910	55	5	9.593363	9.629606	0.370394	9.963757	55
6	9.575447	9.608588	0.391412	9.966859	54	6	9.593659	9.629956	0.370044	9.963704	54
7	9.575758	9.608950	0.391050	9.966808	53	7	9.593955	9.630306	0.369694	9.963650	53
8	9.576069	9.609312	0.390688	9.966756	52	8	9.594251	9.630656	0.369344	9.963596	52
9	9.576379	9.609674	0.390326	9.966705	51	9	9.594547	9.631005	0.368995	9.963542	51
10	9.576689	9.610036	0.389964	9.966653	50	10	9.594842	9.631355	0.368645	9.963488	50
11	9.576999	9.610397	0.389603	9.966602	49	11	9.595137	9.631704	0.368296	9.963434	49
12	9.577309	9.610759	0.389241	9.966550	48	12	9.595432	9.632053	0.367947	9.963379	48
13	9.577618	9.611120	0.388880	9.966499	47	13	9.595727	9.632402	0.367598	9.963325	47
14	9.577927	9.611480	0.388520	9.966447	46	14	9.596021	9.632750	0.367250	9.963271	46
15	9.578236	9.611841	0.388159	9.966395	45	15	9.596315	9.633099	0.366901	9.963217	45
16	9.578545	9.612201	0.387799	9.966344	44	16	9.596609	9.633447	0.366553	9.963163	44
17	9.578853	9.612561	0.387439	9.966292	43	17	9.596903	9.633795	0.366205	9.963108	43
18	9.579162	9.612921	0.387079	9.966240	42	18	9.597196	9.634143	0.365857	9.963054	42
19	9.579470	9.613281	0.386719	9.966188	41	19	9.597490	9.634490	0.365510	9.962999	41
20	9.579777	9.613641	0.386359	9.966136	40	20	9.597783	9.634838	0.365162	9.962945	40
21	9.580085	9.614000	0.386000	9.966085	39	21	9.598075	9.635185	0.364815	9.962890	39
22	9.580392	9.614359	0.385641	9.966033	38	22	9.598368	9.635532	0.364468	9.962836	38
23	9.580699	9.614718	0.385282	9.965981	37	23	9.598660	9.635879	0.364121	9.962781	37
24	9.581005	9.615077	0.384923	9.965929	36	24	9.598952	9.636226	0.363774	9.962727	36
25	9.581312	9.615435	0.384565	9.965876	35	25	9.599244	9.636572	0.363428	9.962672	35
26	9.581618	9.615793	0.384207	9.965824	34	26	9.599536	9.636919	0.363081	9.962617	34
27	9.581924	9.616151	0.383849	9.965772	33	27	9.599827	9.637265	0.362735	9.962562	33
28	9.582229	9.616509	0.383491	9.965720	32	28	9.600118	9.637611	0.362389	9.962508	32
29	9.582535	9.616867	0.383133	9.965668	31	29	9.600409	9.637956	0.362044	9.962453	31
30	9.582840	9.617224	0.382776	9.965615	30	30	9.600700	9.638302	0.361698	9.962398	30
31	9.583145	9.617582	0.382418	9.965563	29	31	9.600990	9.638647	0.361353	9.962343	29
32	9.583449	9.617939	0.382061	9.965511	28	32	9.601280	9.638992	0.361008	9.962288	28
33	9.583754	9.618295	0.381705	9.965458	27	33	9.601570	9.639337	0.360663	9.962233	27
34	9.584058	9.618651	0.381348	9.965406	26	34	9.601860	9.639682	0.360318	9.962178	26
35	9.584363	9.619008	0.380992	9.965353	25	35	9.602150	9.640027	0.359973	9.962123	25
36	9.584666	9.619364	0.380636	9.965301	24	36	9.602439	9.640371	0.359629	9.962067	24
37	9.584968	9.619720	0.380280	9.965248	23	37	9.602728	9.640716	0.359284	9.962012	23
38	9.585272	9.620076	0.379924	9.965195	22	38	9.603017	9.641060	0.358940	9.961957	22
39	9.585574	9.620432	0.379568	9.965143	21	39	9.603305	9.641404	0.358596	9.961902	21
40	9.585877	9.620787	0.379213	9.965090	20	40	9.603594	9.641747	0.358253	9.961846	20
41	9.586179	9.621142	0.378858	9.965037	19	41	9.603882	9.642091	0.357909	9.961791	19
42	9.586482	9.621497	0.378503	9.964984	18	42	9.604170	9.642434	0.357566	9.961735	18
43	9.586783	9.621852	0.378148	9.964931	17	43	9.604457	9.642777	0.357223	9.961680	17
44	9.587085	9.622207	0.377793	9.964879	16	44	9.604745	9.643120	0.356880	9.961624	16
45	9.587386	9.622561	0.377439	9.964826	15	45	9.605032	9.643463	0.356537	9.961569	15
46	9.587688	9.622915	0.377085	9.964773	14	46	9.605319	9.643806	0.356194	9.961513	14
47	9.587989	9.623269	0.376731	9.964720	13	47	9.605606	9.644148	0.355852	9.961458	13
48	9.588289	9.623623	0.376377	9.964666	12	48	9.605892	9.644490	0.355510	9.961402	12
49	9.588590	9.623976	0.376024	9.964613	11	49	9.606179	9.644832	0.355168	9.961346	11
50	9.588890	9.624330	0.375670	9.964560	10	50	9.606465	9.645174	0.354826	9.961290	10
51	9.589190	9.624683	0.375317	9.964507	9	51	9.606751	9.645516	0.354484	9.961235	9
52	9.589489	9.625036	0.374964	9.964454	8	52	9.607036	9.645857	0.354143	9.961179	8
53	9.589789	9.625388	0.374612	9.964400	7	53	9.607322	9.646199	0.353801	9.961123	7
54	9.590088	9.625741	0.374259	9.964347	6	54	9.607607	9.646540	0.353460	9.961067	6
55	9.590387	9.626093	0.373907	9.964294	5	55	9.607892	9.646881	0.353119	9.961011	5
56	9.590686	9.626445	0.373555	9.964240	4	56	9.608177	9.647222	0.352778	9.960955	4
57	9.590984	9.626797	0.373203	9.964187	3	57	9.608461	9.647562	0.352438	9.960899	3
58	9.591282	9.627149	0.372851	9.964133	2	58	9.608745	9.647903	0.352097	9.960843	2
59	9.591580	9.627501	0.372499	9.964080	1	59	9.609029	9.648243	0.351757	9.960786	1
60	9.591878	9.627852	0.372148	9.964026	0	60	9.609313	9.648583	0.351417	9.960730	0
Cofin. 67 Cotan. 67 Tang. 67 Sin. 67				Cofin. 66 Cotan. 66 Tang. 66 Sin. 66							



Sin. 24				Tang. 24				Cotan. 24				Cofin. 24			
0	9.609313	9.648583	0.351417	9.960730	60	1	9.625948	9.668673	0.331327	9.957276	60				
1	9.609597	9.648923	0.351077	9.960674	59	1	9.626219	9.669002	0.330998	9.957217	59				
2	9.609880	9.649263	0.350737	9.960618	58	2	9.626490	9.669322	0.330668	9.957158	58				
3	9.610164	9.649602	0.350398	9.960561	57	3	9.626760	9.669641	0.330339	9.957099	57				
4	9.610447	9.649942	0.350058	9.960505	56	4	9.627030	9.669961	0.330009	9.957040	56				
5	9.610729	9.650281	0.349719	9.960448	55	5	9.627300	9.670280	0.329680	9.956981	55				
6	9.611012	9.650620	0.349380	9.960392	54	6	9.627570	9.670649	0.329351	9.956921	54				
7	9.611294	9.650959	0.349041	9.960335	53	7	9.627840	9.670977	0.329023	9.956862	53				
8	9.611576	9.651297	0.348703	9.960279	52	8	9.628109	9.671306	0.328694	9.956803	52				
9	9.611858	9.651636	0.348364	9.960222	51	9	9.628378	9.671635	0.328365	9.956744	51				
10	9.612140	9.651974	0.348026	9.960165	50	10	9.628647	9.671963	0.328037	9.956684	50				
11	9.612421	9.652312	0.347688	9.960109	49	11	9.628916	9.672291	0.327709	9.956625	49				
12	9.612702	9.652650	0.347350	9.960052	48	12	9.629185	9.672619	0.327381	9.956566	48				
13	9.612983	9.652988	0.347012	9.959995	47	13	9.629453	9.672947	0.327053	9.956507	47				
14	9.613264	9.653326	0.346674	9.959938	46	14	9.629721	9.673274	0.326726	9.956447	46				
15	9.613545	9.653663	0.346337	9.959882	45	15	9.629989	9.673602	0.326398	9.956388	45				
16	9.613825	9.654000	0.346000	9.959825	44	16	9.630257	9.673929	0.326071	9.956327	44				
17	9.614105	9.654337	0.345663	9.959768	43	17	9.630524	9.674257	0.325743	9.956268	43				
18	9.614385	9.654674	0.345326	9.959711	42	18	9.630792	9.674584	0.325416	9.956208	42				
19	9.614665	9.655011	0.344989	9.959654	41	19	9.631059	9.674911	0.325089	9.956148	41				
20	9.614944	9.655348	0.344652	9.959596	40	20	9.631326	9.675237	0.324763	9.956089	40				
21	9.615223	9.655684	0.344316	9.959539	39	21	9.631593	9.675564	0.324436	9.956029	39				
22	9.615502	9.656020	0.343980	9.959482	38	22	9.631859	9.675890	0.324110	9.955969	38				
23	9.615781	9.656356	0.343644	9.959425	37	23	9.632125	9.676217	0.323783	9.955909	37				
24	9.616060	9.656692	0.343308	9.959368	36	24	9.632392	9.676543	0.323457	9.955849	36				
25	9.616338	9.657028	0.342972	9.959310	35	25	9.632658	9.676869	0.323131	9.955789	35				
26	9.616616	9.657364	0.342636	9.959253	34	26	9.632923	9.677194	0.322806	9.955729	34				
27	9.616894	9.657699	0.342300	9.959195	33	27	9.633189	9.677520	0.322480	9.955669	33				
28	9.617172	9.658034	0.341964	9.959138	32	28	9.633454	9.677846	0.322154	9.955609	32				
29	9.617450	9.658369	0.341628	9.959080	31	29	9.633719	9.678171	0.321829	9.955548	31				
30	9.617727	9.658704	0.341292	9.959023	30	30	9.633984	9.678496	0.321504	9.955488	30				
31	9.618004	9.659039	0.340956	9.958965	29	31	9.634249	9.678821	0.321179	9.955428	29				
32	9.618281	9.659373	0.340620	9.958908	28	32	9.634514	9.679146	0.320854	9.955368	28				
33	9.618558	9.659708	0.340284	9.958850	27	33	9.634778	9.679471	0.320529	9.955307	27				
34	9.618834	9.660042	0.339948	9.958792	26	34	9.635042	9.679795	0.320204	9.955247	26				
35	9.619110	9.660376	0.339612	9.958734	25	35	9.635306	9.680120	0.319880	9.955186	25				
36	9.619386	9.660710	0.339276	9.958677	24	36	9.635570	9.680444	0.319556	9.955126	24				
37	9.619662	9.661043	0.338940	9.958619	23	37	9.635834	9.680768	0.319232	9.955065	23				
38	9.619938	9.661377	0.338604	9.958561	22	38	9.636097	9.681092	0.318908	9.955005	22				
39	9.620213	9.661710	0.338268	9.958503	21	39	9.636360	9.681416	0.318584	9.954944	21				
40	9.620488	9.662043	0.337932	9.958445	20	40	9.636623	9.681740	0.318260	9.954883	20				
41	9.620763	9.662376	0.337596	9.958387	19	41	9.636886	9.682063	0.317937	9.954823	19				
42	9.621038	9.662709	0.337260	9.958329	18	42	9.637148	9.682387	0.317613	9.954762	18				
43	9.621313	9.663042	0.336924	9.958271	17	43	9.637411	9.682710	0.317290	9.954701	17				
44	9.621587	9.663375	0.336588	9.958213	16	44	9.637673	9.683033	0.316967	9.954640	16				
45	9.621861	9.663707	0.336252	9.958154	15	45	9.637935	9.683356	0.316644	9.954579	15				
46	9.622135	9.664039	0.335916	9.958096	14	46	9.638197	9.683679	0.316321	9.954518	14				
47	9.622409	9.664371	0.335580	9.958038	13	47	9.638458	9.684001	0.315999	9.954457	13				
48	9.622682	9.664703	0.335244	9.957979	12	48	9.638720	9.684324	0.315676	9.954396	12				
49	9.622956	9.665035	0.334908	9.957921	11	49	9.638981	9.684646	0.315354	9.954335	11				
50	9.623229	9.665366	0.334572	9.957863	10	50	9.639242	9.684968	0.315032	9.954274	10				
51	9.623502	9.665698	0.334236	9.957804	9	51	9.639503	9.685290	0.314710	9.954213	9				
52	9.623774	9.666029	0.333900	9.957746	8	52	9.639764	9.685612	0.314388	9.954152	8				
53	9.624047	9.666360	0.333564	9.957687	7	53	9.640024	9.685934	0.314066	9.954090	7				
54	9.624319	9.666691	0.333228	9.957628	6	54	9.640284	9.686255	0.313745	9.954029	6				
55	9.624591	9.667021	0.332892	9.957570	5	55	9.640544	9.686577	0.313423	9.953968	5				
56	9.624863	9.667352	0.332556	9.957511	4	56	9.640804	9.686898	0.313102	9.953906	4				
57	9.625135	9.667682	0.332220	9.957452	3	57	9.641064	9.687219	0.312781	9.953845	3				
58	9.625407	9.668013	0.331884	9.957393	2	58	9.641324	9.687540	0.312460	9.953783	2				
59	9.625679	9.668343	0.331548	9.957335	1	59	9.641583	9.687861	0.312140	9.953722	1				
60	9.625948	9.668673	0.331212	9.957276	0	60	9.641842	9.688182	0.311818	9.953660	0				
	Cofin. 65	Cotan. 65	Tang. 65	Sin. 65			Cofin. 64	Cotan. 64	Tang. 64	Sin. 64					



Sin. 26				Tang. 26				Cotan. 26				Cofin. 26			
0	9.641842	9.688182	0.311818	9.953660	60	0	9.657047	9.707166	0.292834	9.949881	60				
1	9.64210	9.688502	0.311498	9.953599	59	1	9.657295	9.707478	0.292522	9.949816	59				
2	9.642360	9.688823	0.311177	9.953537	58	2	9.657542	9.707790	0.292210	9.949752	58				
3	9.642618	9.689143	0.310857	9.953475	57	3	9.657790	9.708102	0.291898	9.949688	57				
4	9.642877	9.689463	0.310537	9.953413	56	4	9.658037	9.708414	0.291586	9.949623	56				
5	9.643135	9.689783	0.310217	9.953352	55	5	9.658284	9.708726	0.291274	9.949558	55				
6	9.643393	9.690103	0.309897	9.953290	54	6	9.658531	9.709037	0.290963	9.949494	54				
7	9.643650	9.690423	0.309577	9.953228	53	7	9.658778	9.709349	0.290651	9.949429	53				
8	9.643908	9.690742	0.309258	9.953166	52	8	9.659025	9.709660	0.290340	9.949364	52				
9	9.644165	9.691062	0.308938	9.953104	51	9	9.659271	9.709971	0.290029	9.949300	51				
10	9.644423	9.691381	0.308619	9.953042	50	10	9.659517	9.710282	0.289718	9.949235	50				
11	9.644680	9.691700	0.308300	9.952980	49	11	9.659763	9.710593	0.289407	9.949170	49				
12	9.644936	9.692019	0.307981	9.952918	48	12	9.660009	9.710904	0.289096	9.949105	48				
13	9.645193	9.692338	0.307662	9.952855	47	13	9.660255	9.711215	0.288785	9.949040	47				
14	9.645450	9.692656	0.307344	9.952793	46	14	9.660501	9.711525	0.288475	9.948975	46				
15	9.645706	9.692975	0.307025	9.952731	45	15	9.660746	9.711836	0.288164	9.948910	45				
16	9.645962	9.693293	0.306707	9.952669	44	16	9.660991	9.712146	0.287854	9.948845	44				
17	9.646218	9.693612	0.306388	9.952606	43	17	9.661236	9.712456	0.287544	9.948780	43				
18	9.646474	9.693930	0.306070	9.952544	42	18	9.661481	9.712766	0.287234	9.948715	42				
19	9.646729	9.694248	0.305752	9.952481	41	19	9.661726	9.713076	0.286924	9.948650	41				
20	9.646984	9.694566	0.305434	9.952419	40	20	9.661970	9.713386	0.286614	9.948584	40				
21	9.647240	9.694883	0.305117	9.952356	39	21	9.662214	9.713696	0.286304	9.948519	39				
22	9.647494	9.695201	0.304799	9.952294	38	22	9.662459	9.714005	0.285995	9.948454	38				
23	9.647749	9.695518	0.304482	9.952231	37	23	9.662703	9.714314	0.285686	9.948388	37				
24	9.648004	9.695836	0.304164	9.952168	36	24	9.662946	9.714624	0.285376	9.948323	36				
25	9.648258	9.696153	0.303847	9.952106	35	25	9.663190	9.714933	0.285067	9.948257	35				
26	9.648512	9.696470	0.303530	9.952043	34	26	9.663433	9.715242	0.284758	9.948192	34				
27	9.648766	9.696787	0.303213	9.951980	33	27	9.663677	9.715551	0.284449	9.948126	33				
28	9.649020	9.697103	0.302897	9.951917	32	28	9.663920	9.715860	0.284140	9.948060	32				
29	9.649274	9.697420	0.302580	9.951854	31	29	9.664163	9.716168	0.283832	9.947995	31				
30	9.649527	9.697736	0.302264	9.951791	30	30	9.664406	9.716477	0.283523	9.947929	30				
31	9.649781	9.698053	0.301947	9.951728	29	31	9.664648	9.716785	0.283215	9.947863	29				
32	9.650034	9.698369	0.301631	9.951665	28	32	9.664891	9.717093	0.282907	9.947797	28				
33	9.650287	9.698685	0.301315	9.951602	27	33	9.665133	9.717401	0.282599	9.947731	27				
34	9.650539	9.699001	0.300999	9.951539	26	34	9.665375	9.717709	0.282291	9.947665	26				
35	9.650792	9.699316	0.300684	9.951476	25	35	9.665617	9.718017	0.281983	9.947600	25				
36	9.651044	9.699632	0.300368	9.951412	24	36	9.665859	9.718325	0.281675	9.947533	24				
37	9.651297	9.699947	0.300053	9.951349	23	37	9.666100	9.718633	0.281367	9.947467	23				
38	9.651549	9.700263	0.299737	9.951286	22	38	9.666342	9.718940	0.281060	9.947401	22				
39	9.651800	9.700578	0.299422	9.951222	21	39	9.666583	9.719248	0.280752	9.947335	21				
40	9.652051	9.700893	0.299107	9.951159	20	40	9.666824	9.719555	0.280445	9.947269	20				
41	9.652304	9.701208	0.298792	9.951095	19	41	9.667065	9.719862	0.280138	9.947203	19				
42	9.652557	9.701523	0.298477	9.951032	18	42	9.667305	9.720169	0.279831	9.947136	18				
43	9.652808	9.701837	0.298163	9.950968	17	43	9.667546	9.720476	0.279524	9.947070	17				
44	9.653057	9.702152	0.297848	9.950905	16	44	9.667786	9.720783	0.279217	9.947004	16				
45	9.653308	9.702466	0.297534	9.950841	15	45	9.668027	9.721089	0.278911	9.946937	15				
46	9.653558	9.702781	0.297219	9.950778	14	46	9.668267	9.721396	0.278604	9.946871	14				
47	9.653808	9.703095	0.296905	9.950714	13	47	9.668506	9.721703	0.278298	9.946804	13				
48	9.654059	9.703409	0.296591	9.950650	12	48	9.668746	9.722010	0.277991	9.946738	12				
49	9.654309	9.703722	0.296278	9.950586	11	49	9.668986	9.722315	0.277685	9.946671	11				
50	9.654558	9.704036	0.295964	9.950522	10	50	9.669225	9.722621	0.277379	9.946604	10				
51	9.654808	9.704350	0.295650	9.950458	9	51	9.669464	9.722927	0.277073	9.946538	9				
52	9.655058	9.704663	0.295337	9.950394	8	52	9.669703	9.723232	0.276767	9.946471	8				
53	9.655307	9.704976	0.295024	9.950330	7	53	9.669942	9.723538	0.276462	9.946404	7				
54	9.655556	9.705290	0.294710	9.950266	6	54	9.670181	9.723844	0.276156	9.946337	6				
55	9.655805	9.705603	0.294397	9.950202	5	55	9.670419	9.724149	0.275851	9.946270	5				
56	9.656054	9.705916	0.294084	9.950138	4	56	9.670658	9.724454	0.275546	9.946203	4				
57	9.656302	9.706228	0.293772	9.950074	3	57	9.670896	9.724760	0.275240	9.946136	3				
58	9.656551	9.706541	0.293459	9.950010	2	58	9.671134	9.725065	0.274935	9.946069	2				
59	9.656799	9.706854	0.293146	9.949945	1	59	9.671372	9.725370	0.274630	9.946002	1				
60	9.657047	9.707166	0.292834	9.949881	0	60	9.671609	9.725674	0.274326	9.945935	0				
Cofin. 63	Cotan. 63	Tang. 63	Sin. 63			Cofin. 62	Cotan. 62	Tang. 62	Sin. 62						



Sin. 28 Tang. 28 Cotan. 28 Cofin. 28				Sin. 29 Tang. 29 Cotan. 29 Cofin. 29						
0	9.671609	9.725674	0.274326	9.945935	0	9.685571	9.743752	0.256248	9.941819	60
1	9.671847	9.725979	0.274021	9.945868	1	9.685798	9.744050	0.255950	9.941749	59
2	9.672084	9.726284	0.273716	9.945800	2	9.686027	9.744348	0.255652	9.941679	58
3	9.672321	9.726588	0.273412	9.945733	3	9.686254	9.744645	0.255355	9.941609	57
4	9.672558	9.726892	0.273108	9.945666	4	9.686482	9.744943	0.255057	9.941539	56
5	9.672795	9.727197	0.272803	9.945598	5	9.686709	9.745240	0.254760	9.941469	55
6	9.673032	9.727501	0.272499	9.945531	6	9.686936	9.745538	0.254462	9.941398	54
7	9.673268	9.727805	0.272195	9.945464	7	9.687163	9.745835	0.254165	9.941328	53
8	9.673505	9.728109	0.271891	9.945396	8	9.687389	9.746132	0.253868	9.941258	52
9	9.673741	9.728412	0.271588	9.945328	9	9.687616	9.746429	0.253571	9.941187	51
10	9.673977	9.728716	0.271284	9.945261	10	9.687843	9.746726	0.253274	9.941117	50
11	9.674213	9.729020	0.270980	9.945193	11	9.688069	9.747023	0.252977	9.941046	49
12	9.674448	9.729323	0.270677	9.945125	12	9.688295	9.747319	0.252681	9.940975	48
13	9.674684	9.729626	0.270374	9.945058	13	9.688521	9.747616	0.252384	9.940905	47
14	9.674919	9.729929	0.270071	9.944990	14	9.688747	9.747913	0.252087	9.940834	46
15	9.675155	9.730233	0.269767	9.944922	15	9.688972	9.748209	0.251791	9.940763	45
16	9.675390	9.730535	0.269465	9.944854	16	9.689198	9.748505	0.251495	9.940693	44
17	9.675624	9.730838	0.269162	9.944786	17	9.689423	9.748801	0.251199	9.940622	43
18	9.675859	9.731141	0.268859	9.944718	18	9.689648	9.749097	0.250903	9.940551	42
19	9.676094	9.731444	0.268556	9.944650	19	9.689873	9.749393	0.250607	9.940480	41
20	9.676328	9.731746	0.268254	9.944582	20	9.690098	9.749689	0.250311	9.940409	40
21	9.676562	9.732048	0.267952	9.944514	21	9.690323	9.749985	0.250015	9.940338	39
22	9.676796	9.732351	0.267649	9.944446	22	9.690548	9.750281	0.249719	9.940267	38
23	9.677030	9.732653	0.267347	9.944377	23	9.690772	9.750576	0.249424	9.940196	37
24	9.677264	9.732955	0.267045	9.944309	24	9.690996	9.750872	0.249128	9.940125	36
25	9.677498	9.733257	0.266743	9.944241	25	9.691220	9.751167	0.248833	9.940054	35
26	9.677731	9.733558	0.266442	9.944172	26	9.691444	9.751462	0.248538	9.939982	34
27	9.677964	9.733860	0.266140	9.944104	27	9.691668	9.751757	0.248243	9.939911	33
28	9.678197	9.734162	0.265838	9.944036	28	9.691892	9.752052	0.247948	9.939840	32
29	9.678430	9.734463	0.265537	9.943967	29	9.692115	9.752347	0.247653	9.939768	31
30	9.678663	9.734764	0.265236	9.943899	30	9.692339	9.752642	0.247358	9.939697	30
31	9.678895	9.735066	0.264934	9.943830	31	9.692562	9.752937	0.247063	9.939625	29
32	9.679128	9.735367	0.264633	9.943761	32	9.692785	9.753231	0.246769	9.939554	28
33	9.679360	9.735668	0.264332	9.943693	33	9.693008	9.753526	0.246474	9.939482	27
34	9.679592	9.735969	0.264031	9.943624	34	9.693231	9.753820	0.246180	9.939410	26
35	9.679824	9.736269	0.263731	9.943555	35	9.693453	9.754115	0.245885	9.939339	25
36	9.680056	9.736570	0.263430	9.943486	36	9.693676	9.754409	0.245591	9.939267	24
37	9.680288	9.736870	0.263130	9.943417	37	9.693898	9.754703	0.245297	9.939195	23
38	9.680519	9.737171	0.262829	9.943348	38	9.694120	9.754997	0.245003	9.939123	22
39	9.680750	9.737471	0.262529	9.943279	39	9.694342	9.755291	0.244709	9.939052	21
40	9.680982	9.737771	0.262229	9.943210	40	9.694564	9.755585	0.244415	9.938980	20
41	9.681213	9.738071	0.261929	9.943141	41	9.694786	9.755878	0.244122	9.938908	19
42	9.681443	9.738371	0.261629	9.943072	42	9.695007	9.756172	0.243828	9.938836	18
43	9.681674	9.738671	0.261329	9.943003	43	9.695229	9.756465	0.243535	9.938763	17
44	9.681905	9.738971	0.261029	9.942934	44	9.695450	9.756759	0.243241	9.938691	16
45	9.682135	9.739271	0.260729	9.942864	45	9.695671	9.757052	0.242948	9.938619	15
46	9.682365	9.739570	0.260430	9.942795	46	9.695892	9.757345	0.242655	9.938547	14
47	9.682595	9.739870	0.260130	9.942726	47	9.696113	9.757638	0.242362	9.938475	13
48	9.682825	9.740169	0.259831	9.942656	48	9.696334	9.757931	0.242069	9.938402	12
49	9.683055	9.740468	0.259532	9.942587	49	9.696554	9.758224	0.241776	9.938330	11
50	9.683284	9.740767	0.259233	9.942517	50	9.696775	9.758517	0.241483	9.938258	10
51	9.683514	9.741066	0.258934	9.942448	51	9.696995	9.758810	0.241190	9.938185	9
52	9.683743	9.741365	0.258635	9.942378	52	9.697215	9.759102	0.240898	9.938113	8
53	9.683972	9.741664	0.258336	9.942308	53	9.697435	9.759395	0.240605	9.938040	7
54	9.684201	9.741962	0.258038	9.942239	54	9.697654	9.759687	0.240313	9.937967	6
55	9.684430	9.742261	0.257739	9.942169	55	9.697874	9.759979	0.240021	9.937895	5
56	9.684658	9.742559	0.257441	9.942099	56	9.698094	9.760272	0.239728	9.937822	4
57	9.684887	9.742858	0.257142	9.942029	57	9.698313	9.760564	0.239436	9.937749	3
58	9.685115	9.743156	0.256844	9.941959	58	9.698532	9.760856	0.239144	9.937676	2
59	9.685343	9.743454	0.256546	9.941889	59	9.698751	9.761148	0.238852	9.937604	1
60	9.685571	9.743752	0.256248	9.941819	60	9.698970	9.761440	0.238560	9.937531	0
	Cofin. 61	Cotan. 61	Tang. 61	Sin. 61		Cofin. 60	Cotan. 60	Tang. 60	Sin. 60	



Sin. 30	Tang. 30	Cotan. 30	Cofin. 30	Sin. 31	Tang. 31	Cotan. 31	Cofin. 31				
0	9.698970	9.761439	0.238561	9.937531	60	0	9.711839	9.778774	0.221226	9.933066	60
1	9.699189	9.761731	0.238269	9.937458	59	1	9.712050	9.779060	0.220940	9.932990	59
2	9.699407	9.762023	0.237977	9.937385	58	2	9.712260	9.779346	0.220654	9.932914	58
3	9.699626	9.762314	0.237686	9.937312	57	3	9.712469	9.779632	0.220368	9.932838	57
4	9.699844	9.762606	0.237394	9.937238	56	4	9.712679	9.779918	0.220082	9.932762	56
5	9.700062	9.762897	0.237103	9.937165	55	5	9.712889	9.780205	0.219797	9.932687	55
6	9.700280	9.763188	0.236812	9.937092	54	6	9.713098	9.780489	0.219511	9.932609	54
7	9.700498	9.763479	0.236521	9.937019	53	7	9.713308	9.780775	0.219225	9.932533	53
8	9.700716	9.763770	0.236230	9.936946	52	8	9.713517	9.781060	0.218940	9.932457	52
9	9.700933	9.764061	0.235939	9.936872	51	9	9.713726	9.781346	0.218654	9.932380	51
10	9.701151	9.764352	0.235648	9.936799	50	10	9.713935	9.781631	0.218369	9.932304	50
11	9.701368	9.764643	0.235357	9.936725	49	11	9.714144	9.781916	0.218084	9.932228	49
12	9.701585	9.764933	0.235067	9.936652	48	12	9.714352	9.782201	0.217799	9.932151	48
13	9.701802	9.765224	0.234776	9.936578	47	13	9.714561	9.782486	0.217514	9.932075	47
14	9.702019	9.765514	0.234486	9.936505	46	14	9.714769	9.782771	0.217229	9.931998	46
15	9.702236	9.765805	0.234195	9.936431	45	15	9.714978	9.783056	0.216944	9.931921	45
16	9.702452	9.766095	0.233905	9.936357	44	16	9.715186	9.783341	0.216659	9.931845	44
17	9.702669	9.766385	0.233615	9.936284	43	17	9.715394	9.783626	0.216374	9.931768	43
18	9.702885	9.766675	0.233325	9.936210	42	18	9.715602	9.783910	0.216090	9.931691	42
19	9.703101	9.766965	0.233035	9.936136	41	19	9.715809	9.784195	0.215805	9.931614	41
20	9.703317	9.767255	0.232745	9.936062	40	20	9.716017	9.784479	0.215521	9.931537	40
21	9.703533	9.767545	0.232455	9.935988	39	21	9.716224	9.784764	0.215236	9.931460	39
22	9.703749	9.767834	0.232166	9.935914	38	22	9.716432	9.785048	0.214952	9.931383	38
23	9.703964	9.768124	0.231876	9.935840	37	23	9.716639	9.785332	0.214668	9.931306	37
24	9.704179	9.768414	0.231586	9.935766	36	24	9.716846	9.785616	0.214384	9.931229	36
25	9.704395	9.768703	0.231297	9.935692	35	25	9.717053	9.785900	0.214100	9.931152	35
26	9.704610	9.768992	0.231008	9.935618	34	26	9.717259	9.786184	0.213816	9.931075	34
27	9.704825	9.769281	0.230719	9.935543	33	27	9.717466	9.786468	0.213531	9.930998	33
28	9.705040	9.769571	0.230429	9.935469	32	28	9.717673	9.786752	0.213248	9.930921	32
29	9.705254	9.769860	0.230140	9.935395	31	29	9.717879	9.787036	0.212964	9.930843	31
30	9.705469	9.770148	0.229852	9.935320	30	30	9.718085	9.787319	0.212681	9.930766	30
31	9.705683	9.770437	0.229563	9.935246	29	31	9.718291	9.787603	0.212397	9.930688	29
32	9.705898	9.770726	0.229274	9.935171	28	32	9.718497	9.787886	0.212114	9.930611	28
33	9.706112	9.771015	0.228985	9.935097	27	33	9.718703	9.788170	0.211830	9.930533	27
34	9.706326	9.771303	0.228697	9.935022	26	34	9.718909	9.788453	0.211547	9.930456	26
35	9.706539	9.771592	0.228408	9.934948	25	35	9.719114	9.788736	0.211264	9.930378	25
36	9.706753	9.771880	0.228120	9.934873	24	36	9.719320	9.789019	0.210981	9.930300	24
37	9.706967	9.772168	0.227832	9.934798	23	37	9.719525	9.789302	0.210698	9.930223	23
38	9.707180	9.772457	0.227543	9.934723	22	38	9.719730	9.789585	0.210415	9.930145	22
39	9.707393	9.772745	0.227255	9.934649	21	39	9.719935	9.789868	0.210132	9.930067	21
40	9.707606	9.773033	0.226967	9.934574	20	40	9.720140	9.790151	0.209849	9.929989	20
41	9.707819	9.773321	0.226679	9.934499	19	41	9.720345	9.790434	0.209566	9.929911	19
42	9.708032	9.773608	0.226392	9.934424	18	42	9.720549	9.790716	0.209284	9.929833	18
43	9.708245	9.773896	0.226104	9.934349	17	43	9.720754	9.790999	0.209001	9.929755	17
44	9.708458	9.774184	0.225816	9.934274	16	44	9.720958	9.791281	0.208719	9.929677	16
45	9.708670	9.774471	0.225529	9.934199	15	45	9.721162	9.791563	0.208437	9.929599	15
46	9.708882	9.774759	0.225241	9.934123	14	46	9.721366	9.791846	0.208154	9.929521	14
47	9.709094	9.775046	0.224954	9.934048	13	47	9.721570	9.792128	0.207872	9.929443	13
48	9.709306	9.775333	0.224667	9.933973	12	48	9.721774	9.792410	0.207590	9.929364	12
49	9.709518	9.775621	0.224379	9.933898	11	49	9.721978	9.792692	0.207308	9.929286	11
50	9.709730	9.775908	0.224092	9.933822	10	50	9.722181	9.792974	0.207026	9.929207	10
51	9.709941	9.776195	0.223805	9.933747	9	51	9.722385	9.793256	0.206744	9.929129	9
52	9.710153	9.776482	0.223518	9.933671	8	52	9.722588	9.793538	0.206462	9.929050	8
53	9.710364	9.776768	0.223232	9.933596	7	53	9.722791	9.793819	0.206181	9.928972	7
54	9.710575	9.777055	0.222945	9.933520	6	54	9.722994	9.794101	0.205900	9.928893	6
55	9.710786	9.777342	0.222658	9.933444	5	55	9.723197	9.794383	0.205617	9.928815	5
56	9.710997	9.777628	0.222372	9.933369	4	56	9.723400	9.794664	0.205336	9.928736	4
57	9.711208	9.777915	0.222085	9.933293	3	57	9.723603	9.794946	0.205054	9.928657	3
58	9.711419	9.778201	0.221799	9.933217	2	58	9.723807	9.795227	0.204773	9.928578	2
59	9.711629	9.778488	0.221513	9.933141	1	59	9.724010	9.795508	0.204492	9.928499	1
60	9.711839	9.778774	0.221226	9.933066	0	60	9.724214	9.795789	0.204211	9.928420	0
Cofin. 59	Cotan. 59	Tang. 59	Sin. 59	Cofin. 58	Cotan. 58	Tang. 58	Sin. 58				



Sin. 32	Tang. 32	Cotan. 32	Cofin. 32	Sin. 33	Tang. 33	Cotan. 33	Cofin. 33				
0	9.724210	9.795789	0.204211	9.928420	60	0	9.736109	9.812517	0.187483	9.923591	60
1	9.724412	9.796070	0.203930	9.928342	59	1	9.736303	9.812794	0.187206	9.923509	59
2	9.724614	9.796351	0.203649	9.928263	58	2	9.736498	9.813070	0.186930	9.923427	58
3	9.724816	9.796632	0.203368	9.928183	57	3	9.736692	9.813347	0.186653	9.923345	57
4	9.725017	9.796913	0.203087	9.928104	56	4	9.736886	9.813623	0.186377	9.923263	56
5	9.725219	9.797194	0.202806	9.928025	55	5	9.737080	9.813899	0.186101	9.923181	55
6	9.725420	9.797474	0.202525	9.927946	54	6	9.737274	9.814176	0.185824	9.923098	54
7	9.725622	9.797755	0.202244	9.927867	53	7	9.737467	9.814452	0.185548	9.923016	53
8	9.725823	9.798036	0.201964	9.927787	52	8	9.737661	9.814728	0.185272	9.922933	52
9	9.726024	9.798316	0.201684	9.927708	51	9	9.737855	9.815004	0.184996	9.922851	51
10	9.726225	9.798596	0.201404	9.927629	50	10	9.738048	9.815280	0.184720	9.922768	50
11	9.726426	9.798877	0.201123	9.927549	49	11	9.738241	9.815555	0.184444	9.922686	49
12	9.726626	9.799157	0.200843	9.927470	48	12	9.738434	9.815831	0.184169	9.922604	48
13	9.726827	9.799437	0.200563	9.927390	47	13	9.738627	9.816107	0.183893	9.922522	47
14	9.727027	9.799717	0.200283	9.927310	46	14	9.738820	9.816382	0.183618	9.922440	46
15	9.727228	9.799997	0.200003	9.927231	45	15	9.739013	9.816658	0.183342	9.922358	45
16	9.727428	9.800277	0.199723	9.927151	44	16	9.739206	9.816933	0.183067	9.922276	44
17	9.727628	9.800557	0.199443	9.927071	43	17	9.739398	9.817209	0.182791	9.922194	43
18	9.727828	9.800836	0.199164	9.926991	42	18	9.739590	9.817484	0.182516	9.922112	42
19	9.728027	9.801116	0.198884	9.926911	41	19	9.739783	9.817759	0.182241	9.922030	41
20	9.728227	9.801396	0.198604	9.926831	40	20	9.739975	9.818035	0.181965	9.921948	40
21	9.728427	9.801675	0.198325	9.926751	39	21	9.740167	9.818310	0.181690	9.921866	39
22	9.728626	9.801955	0.198045	9.926671	38	22	9.740359	9.818585	0.181415	9.921784	38
23	9.728825	9.802234	0.197766	9.926591	37	23	9.740550	9.818860	0.181140	9.921702	37
24	9.729024	9.802513	0.197487	9.926511	36	24	9.740742	9.819135	0.180865	9.921620	36
25	9.729223	9.802792	0.197208	9.926431	35	25	9.740934	9.819410	0.180590	9.921538	35
26	9.729422	9.803072	0.196928	9.926351	34	26	9.741125	9.819684	0.180316	9.921456	34
27	9.729621	9.803351	0.196649	9.926270	33	27	9.741316	9.819959	0.180041	9.921374	33
28	9.729820	9.803630	0.196370	9.926190	32	28	9.741508	9.820234	0.179766	9.921292	32
29	9.730018	9.803909	0.196091	9.926110	31	29	9.741699	9.820508	0.179491	9.921210	31
30	9.730217	9.804187	0.195813	9.926029	30	30	9.741889	9.820783	0.179217	9.921128	30
31	9.730415	9.804466	0.195534	9.925949	29	31	9.742080	9.821057	0.178943	9.921046	29
32	9.730613	9.804745	0.195255	9.925868	28	32	9.742271	9.821332	0.178668	9.920964	28
33	9.730811	9.805023	0.194977	9.925788	27	33	9.742462	9.821606	0.178393	9.920882	27
34	9.731009	9.805302	0.194698	9.925707	26	34	9.742652	9.821880	0.178118	9.920800	26
35	9.731206	9.805580	0.194420	9.925626	25	35	9.742842	9.822154	0.177842	9.920718	25
36	9.731404	9.805859	0.194141	9.925545	24	36	9.743033	9.822429	0.177567	9.920636	24
37	9.731602	9.806137	0.193863	9.925465	23	37	9.743223	9.822703	0.177291	9.920554	23
38	9.731799	9.806415	0.193585	9.925384	22	38	9.743413	9.822977	0.177016	9.920472	22
39	9.731996	9.806693	0.193307	9.925303	21	39	9.743602	9.823251	0.176741	9.920390	21
40	9.732193	9.806971	0.193029	9.925222	20	40	9.743792	9.823524	0.176466	9.920308	20
41	9.732390	9.807249	0.192751	9.925141	19	41	9.743982	9.823798	0.176191	9.920226	19
42	9.732587	9.807527	0.192473	9.925060	18	42	9.744171	9.824072	0.175916	9.920144	18
43	9.732784	9.807805	0.192195	9.924979	17	43	9.744361	9.824345	0.175641	9.920062	17
44	9.732980	9.808083	0.191917	9.924897	16	44	9.744550	9.824619	0.175366	9.919980	16
45	9.733177	9.808361	0.191639	9.924816	15	45	9.744739	9.824893	0.175091	9.919898	15
46	9.733373	9.808638	0.191362	9.924735	14	46	9.744928	9.825166	0.174816	9.919816	14
47	9.733569	9.808916	0.191084	9.924654	13	47	9.745117	9.825439	0.174541	9.919734	13
48	9.733765	9.809193	0.190807	9.924572	12	48	9.745306	9.825713	0.174266	9.919652	12
49	9.733961	9.809471	0.190529	9.924491	11	49	9.745494	9.825986	0.173991	9.919570	11
50	9.734157	9.809748	0.190252	9.924409	10	50	9.745683	9.826259	0.173716	9.919488	10
51	9.734353	9.810025	0.189975	9.924328	9	51	9.745871	9.826532	0.173441	9.919406	9
52	9.734548	9.810302	0.189698	9.924246	8	52	9.746060	9.826805	0.173166	9.919324	8
53	9.734744	9.810580	0.189420	9.924164	7	53	9.746248	9.827078	0.172891	9.919242	7
54	9.734939	9.810857	0.189143	9.924083	6	54	9.746436	9.827351	0.172616	9.919160	6
55	9.735135	9.811134	0.188866	9.924001	5	55	9.746624	9.827624	0.172341	9.919078	5
56	9.735330	9.811410	0.188590	9.923919	4	56	9.746812	9.827897	0.172066	9.918996	4
57	9.735525	9.811687	0.188313	9.923837	3	57	9.747000	9.828170	0.171791	9.918914	3
58	9.735719	9.811964	0.188036	9.923755	2	58	9.747187	9.828442	0.171516	9.918832	2
59	9.735914	9.812241	0.187759	9.923673	1	59	9.747374	9.828715	0.171241	9.918750	1
60	9.736109	9.812517	0.187483	9.923591	0	60	9.747562	9.828987	0.170966	9.918668	0
Cofin. 57	Cotan. 57	Tang. 57	Sin. 57	1	Cofin. 56	Cotan. 56	Tang. 56	Sin. 56	1		



Sin. 34	Tang. 34	Cotan. 34	Cofin. 34	Sin. 35	Tang. 35	Cotan. 35	Cofin. 35				
0	9.747562	9.829898	0.171013	9.918574	60	0	9.758591	9.845222	0.154771	9.913365	60
1	9.747749	9.829260	0.170740	9.918489	59	1	9.758772	9.845496	0.154504	9.913276	59
2	9.747936	9.828622	0.170468	9.918404	58	2	9.758952	9.845764	0.154236	9.913187	58
3	9.748123	9.827985	0.170195	9.918318	57	3	9.759132	9.846033	0.153967	9.913099	57
4	9.748310	9.827347	0.169923	9.918233	56	4	9.759312	9.846302	0.153698	9.913010	56
5	9.748497	9.826710	0.169651	9.918147	55	5	9.759492	9.846570	0.153430	9.912922	55
6	9.748683	9.826072	0.169379	9.918062	54	6	9.759672	9.846839	0.153161	9.912833	54
7	9.748870	9.825435	0.169107	9.917976	53	7	9.759852	9.847108	0.152892	9.912744	53
8	9.749056	9.824797	0.168835	9.917891	52	8	9.760031	9.847376	0.152624	9.912655	52
9	9.749243	9.824160	0.168563	9.917805	51	9	9.760211	9.847644	0.152356	9.912566	51
10	9.749429	9.823522	0.168291	9.917719	50	10	9.760390	9.847913	0.152087	9.912477	50
11	9.749615	9.822885	0.168019	9.917634	49	11	9.760569	9.848181	0.151819	9.912388	49
12	9.749801	9.822247	0.167747	9.917548	48	12	9.760748	9.848449	0.151551	9.912299	48
13	9.749987	9.821610	0.167475	9.917462	47	13	9.760927	9.848717	0.151283	9.912210	47
14	9.750172	9.820972	0.167204	9.917376	46	14	9.761106	9.848986	0.151014	9.912121	46
15	9.750358	9.820335	0.166932	9.917290	45	15	9.761285	9.849254	0.150746	9.912031	45
16	9.750543	9.819697	0.166661	9.917204	44	16	9.761464	9.849522	0.150478	9.911942	44
17	9.750729	9.819060	0.166389	9.917118	43	17	9.761642	9.849790	0.150210	9.911853	43
18	9.750914	9.818422	0.166118	9.917032	42	18	9.761821	9.850057	0.149942	9.911763	42
19	9.751099	9.817785	0.165846	9.916946	41	19	9.761999	9.850325	0.149675	9.911674	41
20	9.751284	9.817147	0.165575	9.916859	40	20	9.762177	9.850593	0.149407	9.911584	40
21	9.751469	9.816510	0.165304	9.916773	39	21	9.762356	9.850861	0.149139	9.911495	39
22	9.751654	9.815872	0.165033	9.916687	38	22	9.762534	9.851129	0.148871	9.911405	38
23	9.751839	9.815235	0.164762	9.916600	37	23	9.762712	9.851396	0.148604	9.911315	37
24	9.752023	9.814597	0.164491	9.916514	36	24	9.762889	9.851664	0.148336	9.911226	36
25	9.752208	9.813960	0.164220	9.916427	35	25	9.763067	9.851931	0.148069	9.911136	35
26	9.752392	9.813322	0.163949	9.916341	34	26	9.763245	9.852199	0.147801	9.911046	34
27	9.752577	9.812685	0.163678	9.916254	33	27	9.763422	9.852466	0.147534	9.910956	33
28	9.752760	9.812047	0.163407	9.916167	32	28	9.763600	9.852733	0.147267	9.910866	32
29	9.752944	9.811410	0.163136	9.916081	31	29	9.763777	9.853001	0.147000	9.910776	31
30	9.753128	9.810772	0.162866	9.915994	30	30	9.763954	9.853268	0.146732	9.910686	30
31	9.753312	9.810135	0.162595	9.915907	29	31	9.764131	9.853535	0.146465	9.910596	29
32	9.753495	9.809497	0.162325	9.915820	28	32	9.764308	9.853802	0.146198	9.910506	28
33	9.753679	9.808859	0.162054	9.915733	27	33	9.764485	9.854069	0.145931	9.910415	27
34	9.753862	9.808221	0.161784	9.915646	26	34	9.764662	9.854336	0.145664	9.910325	26
35	9.754046	9.807583	0.161513	9.915559	25	35	9.764838	9.854603	0.145397	9.910235	25
36	9.754229	9.806945	0.161243	9.915472	24	36	9.765015	9.854870	0.145130	9.910144	24
37	9.754412	9.806307	0.160973	9.915385	23	37	9.765191	9.855137	0.144863	9.910054	23
38	9.754595	9.805669	0.160703	9.915297	22	38	9.765367	9.855404	0.144596	9.909963	22
39	9.754778	9.805031	0.160432	9.915210	21	39	9.765544	9.855671	0.144329	9.909873	21
40	9.754960	9.804393	0.160162	9.915123	20	40	9.765720	9.855938	0.144062	9.909782	20
41	9.755143	9.803755	0.159892	9.915035	19	41	9.765896	9.856204	0.143795	9.909691	19
42	9.755326	9.803117	0.159622	9.914948	18	42	9.766072	9.856471	0.143528	9.909601	18
43	9.755508	9.802479	0.159352	9.914860	17	43	9.766247	9.856737	0.143261	9.909510	17
44	9.755690	9.801841	0.159083	9.914773	16	44	9.766423	9.857004	0.142994	9.909419	16
45	9.755872	9.801203	0.158813	9.914685	15	45	9.766598	9.857270	0.142727	9.909328	15
46	9.756054	9.800565	0.158543	9.914598	14	46	9.766774	9.857537	0.142460	9.909237	14
47	9.756236	9.800000	0.158273	9.914510	13	47	9.766949	9.857803	0.142193	9.909146	13
48	9.756418	9.799435	0.158004	9.914422	12	48	9.767124	9.858069	0.141926	9.909055	12
49	9.756600	9.798870	0.157734	9.914334	11	49	9.767300	9.858336	0.141659	9.908964	11
50	9.756782	9.798305	0.157465	9.914246	10	50	9.767475	9.858602	0.141392	9.908873	10
51	9.756963	9.797740	0.157195	9.914158	9	51	9.767649	9.858868	0.141125	9.908781	9
52	9.757144	9.797175	0.156926	9.914070	8	52	9.767824	9.859134	0.140858	9.908690	8
53	9.757326	9.796610	0.156657	9.913982	7	53	9.767999	9.859400	0.140591	9.908599	7
54	9.757507	9.796045	0.156388	9.913894	6	54	9.768173	9.859666	0.140324	9.908507	6
55	9.757688	9.795480	0.156118	9.913806	5	55	9.768348	9.859932	0.140057	9.908416	5
56	9.757869	9.794915	0.155849	9.913718	4	56	9.768522	9.860198	0.139790	9.908324	4
57	9.758050	9.794350	0.155580	9.913630	3	57	9.768697	9.860464	0.139523	9.908233	3
58	9.758231	9.793785	0.155311	9.913542	2	58	9.768871	9.860730	0.139256	9.908141	2
59	9.758412	9.793220	0.155042	9.913454	1	59	9.769045	9.860995	0.138989	9.908049	1
60	9.758593	9.792655	0.154773	9.913365	0	60	9.769219	9.861261	0.138722	9.907958	0



Sin. 36				Sin. 37							
Sin.	Tang.	Cotan.	Cofin.	Sin.	Tang.	Cotan.	Cofin.				
0	9.769219	9.861261	0.138739	9.907958	60	0	9.779463	9.877114	0.122886	9.902349	60
1	9.769393	9.861527	0.138473	9.907866	59	1	9.779631	9.877377	0.122623	9.902253	59
2	9.769566	9.861792	0.138208	9.907774	58	2	9.779798	9.877640	0.122360	9.902158	58
3	9.769740	9.862058	0.137942	9.907682	57	3	9.779966	9.877903	0.122097	9.902063	57
4	9.769913	9.862323	0.137677	9.907590	56	4	9.780133	9.878165	0.121835	9.901967	56
5	9.770087	9.862589	0.137411	9.907498	55	5	9.780300	9.878428	0.121572	9.901872	55
6	9.770260	9.862854	0.137146	9.907406	54	6	9.780467	9.878691	0.121309	9.901776	54
7	9.770433	9.863119	0.136881	9.907314	53	7	9.780634	9.878953	0.121047	9.901681	53
8	9.770606	9.863385	0.136615	9.907222	52	8	9.780801	9.879216	0.120784	9.901585	52
9	9.770779	9.863650	0.136350	9.907129	51	9	9.780968	9.879478	0.120522	9.901490	51
10	9.770952	9.863915	0.136085	9.907037	50	10	9.781134	9.879741	0.120259	9.901394	50
11	9.771125	9.864180	0.135820	9.906945	49	11	9.781301	9.880003	0.119997	9.901298	49
12	9.771298	9.864445	0.135555	9.906852	48	12	9.781468	9.880265	0.119735	9.901202	48
13	9.771470	9.864710	0.135290	9.906760	47	13	9.781634	9.880528	0.119472	9.901106	47
14	9.771643	9.864975	0.135025	9.906667	46	14	9.781800	9.880790	0.119210	9.901010	46
15	9.771815	9.865240	0.134760	9.906575	45	15	9.781966	9.881052	0.118948	9.900914	45
16	9.771987	9.865505	0.134495	9.906482	44	16	9.782132	9.881314	0.118686	9.900818	44
17	9.772159	9.865770	0.134230	9.906389	43	17	9.782298	9.881577	0.118423	9.900722	43
18	9.772331	9.866035	0.133965	9.906296	42	18	9.782464	9.881839	0.118161	9.900626	42
19	9.772503	9.866300	0.133700	9.906204	41	19	9.782630	9.882101	0.117899	9.900529	41
20	9.772675	9.866564	0.133436	9.906111	40	20	9.782796	9.882363	0.117637	9.900433	40
21	9.772847	9.866829	0.133171	9.906018	39	21	9.782961	9.882625	0.117375	9.900337	39
22	9.773018	9.867094	0.132906	9.905925	38	22	9.783127	9.882887	0.117113	9.900240	38
23	9.773190	9.867358	0.132642	9.905832	37	23	9.783292	9.883148	0.116852	9.900144	37
24	9.773361	9.867623	0.132377	9.905739	36	24	9.783458	9.883410	0.116590	9.900047	36
25	9.773533	9.867887	0.132113	9.905645	35	25	9.783623	9.883672	0.116328	9.899951	35
26	9.773704	9.868152	0.131848	9.905552	34	26	9.783788	9.883934	0.116066	9.899854	34
27	9.773875	9.868416	0.131584	9.905459	33	27	9.783953	9.884196	0.115804	9.899757	33
28	9.774046	9.868680	0.131320	9.905366	32	28	9.784118	9.884457	0.115542	9.899660	32
29	9.774217	9.868945	0.131055	9.905272	31	29	9.784282	9.884719	0.115281	9.899564	31
30	9.774388	9.869209	0.130791	9.905179	30	30	9.784447	9.884980	0.115020	9.899467	30
31	9.774558	9.869473	0.130527	9.905085	29	31	9.784612	9.885242	0.114758	9.899370	29
32	9.774729	9.869737	0.130263	9.904992	28	32	9.784776	9.885504	0.114496	9.899273	28
33	9.774899	9.870001	0.129999	9.904898	27	33	9.784941	9.885765	0.114235	9.899176	27
34	9.775070	9.870265	0.129735	9.904804	26	34	9.785105	9.886026	0.113974	9.899078	26
35	9.775240	9.870529	0.129471	9.904711	25	35	9.785269	9.886288	0.113712	9.898981	25
36	9.775410	9.870793	0.129207	9.904617	24	36	9.785433	9.886549	0.113451	9.898884	24
37	9.775580	9.871057	0.128943	9.904523	23	37	9.785597	9.886811	0.113189	9.898787	23
38	9.775750	9.871321	0.128679	9.904429	22	38	9.785761	9.887072	0.112928	9.898689	22
39	9.775920	9.871585	0.128415	9.904335	21	39	9.785925	9.887333	0.112667	9.898592	21
40	9.776090	9.871849	0.128151	9.904241	20	40	9.786089	9.887594	0.112406	9.898494	20
41	9.776259	9.872112	0.127888	9.904147	19	41	9.786252	9.887855	0.112145	9.898397	19
42	9.776429	9.872376	0.127624	9.904053	18	42	9.786416	9.888116	0.111884	9.898299	18
43	9.776598	9.872640	0.127360	9.903959	17	43	9.786579	9.888378	0.111622	9.898202	17
44	9.776767	9.872903	0.127097	9.903864	16	44	9.786742	9.888639	0.111361	9.898104	16
45	9.776937	9.873167	0.126833	9.903770	15	45	9.786906	9.888900	0.111100	9.898006	15
46	9.777106	9.873430	0.126570	9.903676	14	46	9.787069	9.889161	0.110839	9.897908	14
47	9.777275	9.873694	0.126306	9.903581	13	47	9.787232	9.889422	0.110579	9.897810	13
48	9.777444	9.873957	0.126043	9.903487	12	48	9.787395	9.889682	0.110318	9.897712	12
49	9.777613	9.874220	0.125780	9.903392	11	49	9.787557	9.889943	0.110057	9.897614	11
50	9.777781	9.874484	0.125516	9.903298	10	50	9.787720	9.890204	0.109796	9.897516	10
51	9.777950	9.874747	0.125253	9.903203	9	51	9.787883	9.890465	0.109535	9.897418	9
52	9.778119	9.875010	0.124990	9.903108	8	52	9.788045	9.890725	0.109275	9.897320	8
53	9.778287	9.875273	0.124727	9.903014	7	53	9.788208	9.890986	0.109014	9.897222	7
54	9.778455	9.875537	0.124463	9.902919	6	54	9.788370	9.891247	0.108753	9.897123	6
55	9.778624	9.875800	0.124200	9.902824	5	55	9.788532	9.891507	0.108493	9.897025	5
56	9.778792	9.876063	0.123937	9.902729	4	56	9.788694	9.891768	0.108232	9.896926	4
57	9.778960	9.876326	0.123674	9.902634	3	57	9.788856	9.892028	0.107972	9.896828	3
58	9.779128	9.876589	0.123411	9.902539	2	58	9.789018	9.892289	0.107711	9.896729	2
59	9.779295	9.876852	0.123148	9.902444	1	59	9.789180	9.892549	0.107451	9.896631	1
60	9.779463	9.877114	0.122886	9.902349	0	60	9.789342	9.892810	0.107190	9.896532	0

Cofin. 53 Cotan. 53 Tang. 53 Sin. 53

Cofin. 52 Cotan. 52 Tang. 52 Sin. 52



1	Sin. 38	Tang. 38	Cotan. 38	Cofin. 38	1	Sin. 39	Tang. 39	Cotan. 39	Cofin. 39
0	9.789342	9.892810	0.107190	9.896532	0	9.798872	9.908369	0.091631	9.890503
1	9.789504	9.893070	0.106930	9.896433	1	9.799028	9.908628	0.091372	9.890400
2	9.789666	9.893331	0.106669	9.896335	2	9.799184	9.908886	0.091114	9.890298
3	9.789827	9.893591	0.106409	9.896236	3	9.799339	9.909144	0.090856	9.890195
4	9.789988	9.893851	0.106149	9.896137	4	9.799495	9.909402	0.090598	9.890093
5	9.790149	9.894111	0.105889	9.896038	5	9.799651	9.909660	0.090340	9.889990
6	9.790310	9.894372	0.105628	9.895939	6	9.799806	9.909918	0.090082	9.889888
7	9.790471	9.894632	0.105368	9.895840	7	9.799962	9.910177	0.089823	9.889785
8	9.790632	9.894892	0.105108	9.895741	8	9.800117	9.910435	0.089565	9.889682
9	9.790793	9.895152	0.104848	9.895641	9	9.800272	9.910693	0.089307	9.889579
10	9.790954	9.895412	0.104588	9.895542	10	9.800427	9.910951	0.089049	9.889477
11	9.791115	9.895672	0.104328	9.895443	11	9.800582	9.911209	0.088791	9.889374
12	9.791275	9.895932	0.104068	9.895343	12	9.800737	9.911467	0.088533	9.889271
13	9.791436	9.896192	0.103808	9.895244	13	9.800892	9.911725	0.088275	9.889168
14	9.791596	9.896452	0.103548	9.895145	14	9.801047	9.911982	0.088018	9.889064
15	9.791757	9.896712	0.103288	9.895045	15	9.801202	9.912240	0.087760	9.888961
16	9.791917	9.896971	0.103029	9.894945	16	9.801356	9.912498	0.087502	9.888858
17	9.792077	9.897231	0.102769	9.894846	17	9.801511	9.912756	0.087244	9.888755
18	9.792237	9.897491	0.102509	9.894746	18	9.801665	9.913014	0.086986	9.888651
19	9.792397	9.897751	0.102249	9.894646	19	9.801819	9.913271	0.086729	9.888548
20	9.792557	9.898010	0.101990	9.894546	20	9.801973	9.913529	0.086471	9.888444
21	9.792716	9.898270	0.101730	9.894446	21	9.802128	9.913787	0.086213	9.888341
22	9.792876	9.898530	0.101470	9.894346	22	9.802282	9.914044	0.085956	9.888237
23	9.793035	9.898789	0.101211	9.894246	23	9.802436	9.914302	0.085698	9.888134
24	9.793195	9.899049	0.100951	9.894146	24	9.802590	9.914560	0.085440	9.888030
25	9.793354	9.899308	0.100692	9.894046	25	9.802743	9.914817	0.085183	9.887926
26	9.793514	9.899568	0.100432	9.893946	26	9.802897	9.915075	0.084925	9.887822
27	9.793673	9.899827	0.100173	9.893846	27	9.803050	9.915332	0.084668	9.887718
28	9.793832	9.900086	0.099913	9.893745	28	9.803204	9.915590	0.084410	9.887614
29	9.793991	9.900346	0.099654	9.893645	29	9.803357	9.915847	0.084153	9.887510
30	9.794150	9.900605	0.099395	9.893544	30	9.803511	9.916104	0.083896	9.887406
31	9.794308	9.900864	0.099136	9.893444	31	9.803664	9.916362	0.083638	9.887302
32	9.794467	9.901124	0.098876	9.893343	32	9.803817	9.916619	0.083381	9.887198
33	9.794626	9.901383	0.098617	9.893243	33	9.803970	9.916877	0.083123	9.887093
34	9.794784	9.901642	0.098358	9.893142	34	9.804123	9.917134	0.082866	9.886989
35	9.794942	9.901901	0.098099	9.893041	35	9.804276	9.917391	0.082609	9.886885
36	9.795101	9.902160	0.097840	9.892940	36	9.804428	9.917648	0.082352	9.886780
37	9.795259	9.902420	0.097580	9.892839	37	9.804581	9.917906	0.082094	9.886676
38	9.795417	9.902679	0.097321	9.892739	38	9.804734	9.918163	0.081837	9.886571
39	9.795575	9.902938	0.097062	9.892638	39	9.804886	9.918420	0.081580	9.886466
40	9.795733	9.903197	0.096803	9.892536	40	9.805039	9.918677	0.081323	9.886362
41	9.795891	9.903456	0.096544	9.892435	41	9.805191	9.918934	0.081066	9.886257
42	9.796049	9.903714	0.096286	9.892334	42	9.805343	9.919191	0.080809	9.886152
43	9.796206	9.903973	0.096027	9.892233	43	9.805495	9.919448	0.080552	9.886047
44	9.796364	9.904232	0.095768	9.892132	44	9.805647	9.919705	0.080295	9.885942
45	9.796521	9.904491	0.095509	9.892030	45	9.805799	9.919962	0.080038	9.885837
46	9.796679	9.904750	0.095250	9.891929	46	9.805951	9.920219	0.079781	9.885732
47	9.796836	9.905008	0.094991	9.891827	47	9.806103	9.920476	0.079524	9.885627
48	9.796993	9.905267	0.094733	9.891726	48	9.806254	9.920733	0.079267	9.885522
49	9.797150	9.905526	0.094474	9.891624	49	9.806406	9.920990	0.079010	9.885416
50	9.797307	9.905785	0.094215	9.891523	50	9.806557	9.921247	0.078753	9.885311
51	9.797464	9.906043	0.093957	9.891421	51	9.806709	9.921503	0.078497	9.885205
52	9.797621	9.906302	0.093698	9.891319	52	9.806860	9.921760	0.078240	9.885100
53	9.797777	9.906560	0.093440	9.891217	53	9.807011	9.922017	0.077983	9.884994
54	9.797934	9.906819	0.093181	9.891115	54	9.807163	9.922274	0.077726	9.884889
55	9.798091	9.907077	0.092923	9.891013	55	9.807314	9.922530	0.077470	9.884783
56	9.798247	9.907336	0.092664	9.890911	56	9.807465	9.922787	0.077213	9.884677
57	9.798403	9.907594	0.092406	9.890809	57	9.807615	9.923044	0.076956	9.884572
58	9.798560	9.907853	0.092147	9.890707	58	9.807766	9.923300	0.076699	9.884466
59	9.798716	9.908111	0.091889	9.890605	59	9.807917	9.923557	0.076443	9.884360
60	9.798872	9.908369	0.091631	9.890503	60	9.808067	9.923814	0.076186	9.884254
	Cofin. 38	Cotan. 38	Tang. 38	Sin. 38		Cofin. 39	Cotan. 39	Tang. 39	Sin. 39



	Sin. 40	Tang. 40	Cotan. 40	Cofin. 40		Sin. 41	Tang. 41	Cotan. 41	Cofin. 41	
0	9.808067	9.923814	0.076186	9.884254	60	9.816943	9.939163	0.060837	9.877780	60
1	9.808218	9.924070	0.075930	9.884148	59	9.817088	9.939418	0.060582	9.877670	59
2	9.808368	9.924327	0.075673	9.884042	58	9.817233	9.939673	0.060327	9.877560	58
3	9.808519	9.924583	0.075417	9.883936	57	9.817379	9.939928	0.060072	9.877450	57
4	9.808669	9.924840	0.075160	9.883829	56	9.817524	9.940183	0.059817	9.877340	56
5	9.808819	9.925096	0.074904	9.883723	55	9.817668	9.940439	0.059561	9.877230	55
6	9.808969	9.925352	0.074648	9.883617	54	9.817813	9.940694	0.059306	9.877120	54
7	9.809119	9.925609	0.074391	9.883510	53	9.817958	9.940949	0.059051	9.877010	53
8	9.809269	9.925865	0.074135	9.883404	52	9.818103	9.941204	0.058796	9.876899	52
9	9.809419	9.926122	0.073878	9.883297	51	9.818247	9.941459	0.058541	9.876789	51
10	9.809569	9.926378	0.073622	9.883191	50	9.818392	9.941713	0.058287	9.876678	50
11	9.809718	9.926634	0.073366	9.883084	49	9.818536	9.941968	0.058032	9.876568	49
12	9.809868	9.926890	0.073110	9.882977	48	9.818681	9.942222	0.057777	9.876457	48
13	9.810017	9.927147	0.072853	9.882871	47	9.818825	9.942477	0.057522	9.876347	47
14	9.810167	9.927403	0.072597	9.882764	46	9.818969	9.942731	0.057267	9.876236	46
15	9.810316	9.927659	0.072341	9.882657	45	9.819113	9.942988	0.057012	9.876125	45
16	9.810465	9.927915	0.072085	9.882550	44	9.819257	9.943243	0.056757	9.876014	44
17	9.810614	9.928171	0.071829	9.882443	43	9.819401	9.943498	0.056502	9.875904	43
18	9.810763	9.928427	0.071573	9.882336	42	9.819545	9.943752	0.056248	9.875793	42
19	9.810912	9.928684	0.071316	9.882229	41	9.819689	9.944007	0.055993	9.875682	41
20	9.811061	9.928940	0.071060	9.882121	40	9.819832	9.944262	0.055738	9.875571	40
21	9.811210	9.929196	0.070804	9.882014	39	9.819976	9.944517	0.055483	9.875460	39
22	9.811358	9.929452	0.070548	9.881907	38	9.820120	9.944771	0.055229	9.875348	38
23	9.811507	9.929708	0.070292	9.881799	37	9.820263	9.945026	0.054974	9.875237	37
24	9.811655	9.929964	0.070036	9.881692	36	9.820406	9.945281	0.054719	9.875126	36
25	9.811804	9.930220	0.069780	9.881584	35	9.820550	9.945535	0.054465	9.875014	35
26	9.811952	9.930475	0.069525	9.881477	34	9.820693	9.945790	0.054210	9.874903	34
27	9.812100	9.930731	0.069269	9.881369	33	9.820836	9.946045	0.053955	9.874791	33
28	9.812248	9.930987	0.069013	9.881261	32	9.820979	9.946300	0.053701	9.874680	32
29	9.812396	9.931243	0.068757	9.881153	31	9.821122	9.946554	0.053446	9.874568	31
30	9.812544	9.931499	0.068501	9.881046	30	9.821265	9.946808	0.053192	9.874456	30
31	9.812692	9.931755	0.068245	9.880938	29	9.821407	9.947063	0.052937	9.874344	29
32	9.812840	9.932010	0.067990	9.880830	28	9.821550	9.947318	0.052682	9.874232	28
33	9.812988	9.932266	0.067734	9.880722	27	9.821693	9.947572	0.052428	9.874121	27
34	9.813135	9.932522	0.067478	9.880613	26	9.821835	9.947827	0.052173	9.874009	26
35	9.813283	9.932778	0.067222	9.880505	25	9.821977	9.948081	0.051919	9.873896	25
36	9.813430	9.933033	0.066967	9.880397	24	9.822120	9.948335	0.051665	9.873784	24
37	9.813578	9.933289	0.066711	9.880289	23	9.822263	9.948590	0.051410	9.873672	23
38	9.813725	9.933544	0.066455	9.880180	22	9.822404	9.948844	0.051156	9.873560	22
39	9.813872	9.933800	0.066200	9.880072	21	9.822546	9.949099	0.050901	9.873448	21
40	9.814019	9.934056	0.065944	9.879963	20	9.822688	9.949353	0.050647	9.873335	20
41	9.814166	9.934311	0.065689	9.879855	19	9.822830	9.949608	0.050392	9.873223	19
42	9.814313	9.934567	0.065433	9.879746	18	9.822972	9.949862	0.050138	9.873110	18
43	9.814460	9.934822	0.065178	9.879637	17	9.823114	9.950116	0.049884	9.872998	17
44	9.814607	9.935078	0.064922	9.879529	16	9.823255	9.950371	0.049629	9.872885	16
45	9.814753	9.935333	0.064667	9.879420	15	9.823397	9.950625	0.049375	9.872772	15
46	9.814900	9.935589	0.064411	9.879311	14	9.823539	9.950879	0.049121	9.872659	14
47	9.815046	9.935844	0.064156	9.879202	13	9.823680	9.951133	0.048867	9.872547	13
48	9.815193	9.936100	0.063900	9.879093	12	9.823821	9.951388	0.048612	9.872434	12
49	9.815339	9.936355	0.063645	9.878984	11	9.823963	9.951642	0.048358	9.872321	11
50	9.815485	9.936611	0.063389	9.878875	10	9.824104	9.951896	0.048104	9.872208	10
51	9.815632	9.936866	0.063134	9.878766	9	9.824245	9.952150	0.047850	9.872095	9
52	9.815778	9.937121	0.062879	9.878656	8	9.824386	9.952405	0.047595	9.871981	8
53	9.815924	9.937377	0.062623	9.878547	7	9.824527	9.952659	0.047341	9.871868	7
54	9.816069	9.937632	0.062368	9.878438	6	9.824668	9.952913	0.047087	9.871755	6
55	9.816215	9.937887	0.062113	9.878328	5	9.824808	9.953167	0.046833	9.871641	5
56	9.816361	9.938142	0.061858	9.878219	4	9.824949	9.953421	0.046579	9.871528	4
57	9.816507	9.938398	0.061602	9.878109	3	9.825090	9.953675	0.046325	9.871414	3
58	9.816652	9.938653	0.061347	9.877999	2	9.825230	9.953929	0.046071	9.871301	2
59	9.816798	9.938908	0.061092	9.877890	1	9.825371	9.954183	0.045817	9.871187	1
60	9.816943	9.939163	0.060837	9.877780	0	9.825511	9.954437	0.045563	9.871073	0
	Cofin. 49	Cotan. 49	Tang. 49	Sin. 49		Cofin. 48	Cotan. 48	Tang. 48	Sin. 48	



(23)											
Sin. 42	Tang. 42	Cotan. 42	Cofin. 42	Sin. 43	Tang. 43	Cotan. 43	Cofin. 43				
0	9.825511	9.954437	0.045563	9.871073	60	0	9.833783	9.969656	0.030344	9.864127	60
1	9.825651	9.954691	0.045799	9.870960	59	1	9.833919	9.969909	0.030091	9.864010	59
2	9.825791	9.954946	0.046035	9.870846	58	2	9.834054	9.970162	0.029838	9.863892	58
3	9.825931	9.955200	0.046271	9.870732	57	3	9.834189	9.970416	0.029584	9.863774	57
4	9.826071	9.955454	0.046507	9.870618	56	4	9.834325	9.970669	0.029331	9.863656	56
5	9.826211	9.955708	0.046743	9.870504	55	5	9.834460	9.970922	0.029078	9.863538	55
6	9.826351	9.955961	0.046979	9.870390	54	6	9.834595	9.971175	0.028825	9.863419	54
7	9.826491	9.956215	0.047215	9.870276	53	7	9.834730	9.971429	0.028571	9.863301	53
8	9.826631	9.956469	0.047451	9.870161	52	8	9.834865	9.971682	0.028318	9.863183	52
9	9.826770	9.956723	0.047687	9.870047	51	9	9.834999	9.971935	0.028064	9.863064	51
10	9.826910	9.956977	0.047923	9.869933	50	0	9.835134	9.972188	0.027812	9.862946	50
11	9.827049	9.957231	0.048159	9.869818	49	11	9.835269	9.972441	0.027559	9.862827	49
12	9.827189	9.957485	0.048395	9.869704	48	12	9.835403	9.972695	0.027305	9.862709	48
13	9.827328	9.957739	0.048631	9.869589	47	13	9.835538	9.972948	0.027052	9.862590	47
14	9.827467	9.957992	0.048867	9.869474	46	14	9.835672	9.973201	0.026799	9.862471	46
15	9.827606	9.958247	0.049103	9.869360	45	15	9.835807	9.973454	0.026546	9.862353	45
16	9.827745	9.958500	0.049339	9.869245	44	16	9.835941	9.973707	0.026293	9.862234	44
17	9.827884	9.958754	0.049575	9.869130	43	17	9.836075	9.973960	0.026040	9.862115	43
18	9.828023	9.959008	0.049811	9.869015	42	18	9.836209	9.974213	0.025787	9.861996	42
19	9.828162	9.959262	0.049997	9.868900	41	19	9.836343	9.974466	0.025534	9.861877	41
20	9.828301	9.959516	0.050233	9.868785	40	20	9.836477	9.974720	0.025280	9.861758	40
21	9.828439	9.959769	0.050469	9.868670	39	21	9.836611	9.974973	0.025027	9.861638	39
22	9.828578	9.960023	0.050705	9.868555	38	22	9.836745	9.975226	0.024774	9.861519	38
23	9.828716	9.960277	0.050941	9.868440	37	23	9.836878	9.975479	0.024521	9.861400	37
24	9.828855	9.960530	0.051177	9.868324	36	24	9.837012	9.975732	0.024268	9.861280	36
25	9.828993	9.960784	0.051413	9.868209	35	25	9.837146	9.975985	0.024015	9.861161	35
26	9.829131	9.961038	0.051649	9.868093	34	26	9.837279	9.976238	0.023762	9.861041	34
27	9.829269	9.961292	0.051885	9.867978	33	27	9.837412	9.976491	0.023509	9.860922	33
28	9.829407	9.961545	0.052121	9.867862	32	28	9.837546	9.976744	0.023256	9.860802	32
29	9.829545	9.961799	0.052357	9.867747	31	29	9.837679	9.976997	0.023003	9.860682	31
30	9.829683	9.962052	0.052593	9.867631	30	30	9.837812	9.977250	0.022750	9.860562	30
31	9.829821	9.962306	0.052829	9.867515	29	31	9.837945	9.977503	0.022497	9.860442	29
32	9.829959	9.962560	0.053065	9.867399	28	32	9.838078	9.977756	0.022244	9.860322	28
33	9.830097	9.962813	0.053301	9.867283	27	33	9.838211	9.978009	0.021991	9.860202	27
34	9.830234	9.963067	0.053537	9.867167	26	34	9.838344	9.978262	0.021738	9.860082	26
35	9.830372	9.963320	0.053773	9.867051	25	35	9.838477	9.978515	0.021485	9.859962	25
36	9.830509	9.963574	0.054009	9.866935	24	36	9.838610	9.978768	0.021232	9.859842	24
37	9.830646	9.963828	0.054245	9.866819	23	37	9.838742	9.979021	0.020979	9.859721	23
38	9.830784	9.964081	0.054481	9.866703	22	38	9.838875	9.979274	0.020726	9.859601	22
39	9.830921	9.964335	0.054717	9.866586	21	39	9.839007	9.979527	0.020473	9.859480	21
40	9.831058	9.964588	0.054953	9.866470	20	40	9.839140	9.979780	0.020220	9.859360	20
41	9.831195	9.964842	0.055189	9.866353	19	41	9.839272	9.980033	0.019967	9.859239	19
42	9.831332	9.965095	0.055425	9.866237	18	42	9.839404	9.980286	0.019714	9.859119	18
43	9.831469	9.965349	0.055661	9.866120	17	43	9.839536	9.980538	0.019462	9.858997	17
44	9.831606	9.965602	0.055897	9.866004	16	44	9.839668	9.980791	0.019209	9.858877	16
45	9.831742	9.965855	0.056133	9.865887	15	45	9.839800	9.981044	0.018956	9.858756	15
46	9.831879	9.966109	0.056369	9.865770	14	46	9.839932	9.981297	0.018703	9.858635	14
47	9.832015	9.966362	0.056605	9.865653	13	47	9.840064	9.981550	0.018450	9.858514	13
48	9.832152	9.966616	0.056841	9.865536	12	48	9.840196	9.981803	0.018197	9.858393	12
49	9.832288	9.966869	0.057077	9.865419	11	49	9.840328	9.982056	0.017944	9.858272	11
50	9.832425	9.967123	0.057313	9.865302	10	50	9.840459	9.982309	0.017691	9.858151	10
51	9.832561	9.967376	0.057549	9.865185	9	51	9.840591	9.982562	0.017438	9.858029	9
52	9.832697	9.967629	0.057785	9.865068	8	52	9.840722	9.982814	0.017186	9.857908	8
53	9.832833	9.967883	0.058021	9.864950	7	53	9.840854	9.983067	0.016933	9.857786	7
54	9.832969	9.968136	0.058257	9.864833	6	54	9.840985	9.983320	0.016680	9.857665	6
55	9.833105	9.968389	0.058493	9.864716	5	55	9.841116	9.983573	0.016427	9.857543	5
56	9.833241	9.968643	0.058729	9.864598	4	56	9.841247	9.983826	0.016174	9.857422	4
57	9.833377	9.968896	0.058965	9.864481	3	57	9.841378	9.984079	0.015921	9.857300	3
58	9.833512	9.969149	0.059201	9.864363	2	58	9.841509	9.984332	0.015668	9.857178	2
59	9.833648	9.969402	0.059437	9.864245	1	59	9.841640	9.984584	0.015416	9.857056	1
60	9.833783	9.969656	0.059673	9.864127	0	60	9.841771	9.984837	0.015163	9.856934	0
	Cofin. 47	Cotan. 47	Tang. 47	Sin. 47			Cofin. 46	Cotan. 46	Tang. 46	Sin. 46	



	Sin. 44	Tang. 44	Cotan. 44	Cofin. 44		Sin. 44	Tang. 44	Cotan. 44	Cofin. 44	
0	9.841771	9.984837	0.015163	9.856934	60	9.845662	9.992420	0.007580	9.853242	30
1	9.841902	9.985090	0.014910	9.856812	59	9.845790	9.992672	0.007328	9.853118	29
2	9.842033	9.985343	0.014657	9.856690	58	9.845919	9.992925	0.007075	9.852994	28
3	9.842163	9.985596	0.014404	9.856568	57	9.846047	9.993178	0.006822	9.852869	27
4	9.842294	9.985848	0.014152	9.856446	56	9.846175	9.993431	0.006569	9.852745	26
5	9.842424	9.986101	0.013899	9.856323	55	9.846304	9.993683	0.006317	9.852620	25
6	9.842555	9.986354	0.013646	9.856201	54	9.846432	9.993936	0.006064	9.852496	24
7	9.842685	9.986607	0.013393	9.856078	53	9.846560	9.994189	0.005811	9.852371	23
8	9.842815	9.986860	0.013140	9.855956	52	9.846688	9.994441	0.005559	9.852247	22
9	9.842946	9.987112	0.012888	9.855833	51	9.846816	9.994694	0.005306	9.852122	21
10	9.843076	9.987365	0.012635	9.855711	50	9.846944	9.994947	0.005053	9.851997	20
11	9.843206	9.987618	0.012382	9.855588	49	9.847071	9.995199	0.004801	9.851872	19
12	9.843336	9.987871	0.012129	9.855465	48	9.847199	9.995452	0.004548	9.851747	18
13	9.843466	9.988123	0.011877	9.855342	47	9.847327	9.995705	0.004295	9.851622	17
14	9.843595	9.988376	0.011624	9.855219	46	9.847454	9.995957	0.004043	9.851497	16
15	9.843725	9.988629	0.011371	9.855096	45	9.847582	9.996210	0.003790	9.851372	15
16	9.843855	9.988882	0.011118	9.854973	44	9.847709	9.996463	0.003537	9.851246	14
17	9.843984	9.989134	0.010866	9.854850	43	9.847836	9.996715	0.003285	9.851121	13
18	9.844114	9.989387	0.010613	9.854727	42	9.847964	9.996968	0.003032	9.850996	12
19	9.844243	9.989640	0.010360	9.854603	41	9.848091	9.997221	0.002779	9.850870	11
20	9.844372	9.989893	0.010107	9.854480	40	9.848218	9.997473	0.002527	9.850745	10
21	9.844502	9.990145	0.009855	9.854356	39	9.848345	9.997726	0.002274	9.850619	9
22	9.844631	9.990398	0.009602	9.854233	38	9.848472	9.997979	0.002021	9.850493	8
23	9.844760	9.990651	0.009349	9.854109	37	9.848599	9.998231	0.001769	9.850368	7
24	9.844889	9.990903	0.009097	9.853986	36	9.848726	9.998484	0.001516	9.850242	6
25	9.845018	9.991156	0.008844	9.853862	35	9.848852	9.998737	0.001263	9.850116	5
26	9.845147	9.991409	0.008591	9.853738	34	9.848979	9.998989	0.001011	9.849990	4
27	9.845276	9.991662	0.008338	9.853614	33	9.849106	9.999242	0.000758	9.849864	3
28	9.845405	9.991914	0.008086	9.853490	32	9.849232	9.999495	0.000505	9.849738	2
29	9.845533	9.992167	0.007833	9.853366	31	9.849359	9.999747	0.000253	9.849611	1
30	9.845662	9.992420	0.007580	9.853242	30	9.849485	0.000000	0.000000	9.849485	0
	Cofin. 45	Cotan. 45	Tang. 45	Sin. 45		Cofin. 45	Cotan. 45	Tang. 45	Sin. 45	



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
0	inf. neg.						
1	0.000000	61	1.785330	121	2.082785	181	2.257679
2	0.301030	62	1.792392	122	2.086360	182	2.260071
3	0.477121	63	1.799341	123	2.089905	183	2.262451
4	0.602060	64	1.806180	124	2.093422	184	2.264818
5	0.698970	65	1.812913	125	2.096910	185	2.267172
6	0.778151	66	1.819544	126	2.100371	186	2.269513
7	0.845098	67	1.826075	127	2.103804	187	2.271842
8	0.903090	68	1.832509	128	2.107210	188	2.274158
9	0.954243	69	1.838849	129	2.110590	189	2.276462
10	1.000000	70	1.845098	130	2.113943	190	2.278754
11	1.041393	71	1.851258	131	2.117271	191	2.281033
12	1.079151	72	1.857332	132	2.120574	192	2.283301
13	1.113943	73	1.863323	133	2.123852	193	2.285557
14	1.146128	74	1.869232	134	2.127105	194	2.287802
15	1.176091	75	1.875061	135	2.130334	195	2.290035
16	1.204120	76	1.880814	136	2.133539	196	2.292256
17	1.230449	77	1.886491	137	2.136721	197	2.294466
18	1.255273	78	1.892095	138	2.139879	198	2.296665
19	1.278754	79	1.897627	139	2.143015	199	2.298853
20	1.301030	80	1.903090	140	2.146128	200	2.301030
21	1.322219	81	1.908485	141	2.149219	201	2.303196
22	1.342423	82	1.913814	142	2.152288	202	2.305351
23	1.361728	83	1.919078	143	2.155336	203	2.307496
24	1.380211	84	1.924279	144	2.158362	204	2.309630
25	1.397940	85	1.929419	145	2.161368	205	2.311754
26	1.414973	86	1.934498	146	2.164353	206	2.313867
27	1.431364	87	1.939519	147	2.167317	207	2.315970
28	1.447158	88	1.944483	148	2.170262	208	2.318063
29	1.462398	89	1.949390	149	2.173186	209	2.320146
30	1.477121	90	1.954243	150	2.176091	210	2.322219
31	1.491362	91	1.959041	151	2.178977	211	2.324282
32	1.505150	92	1.963788	152	2.181844	212	2.326336
33	1.518514	93	1.968483	153	2.184691	213	2.328380
34	1.531479	94	1.973128	154	2.187521	214	2.330414
35	1.544068	95	1.977724	155	2.190332	215	2.332438
36	1.556303	96	1.982271	156	2.193125	216	2.334454
37	1.568202	97	1.986772	157	2.195900	217	2.336460
38	1.579784	98	1.991226	158	2.198657	218	2.338456
39	1.591065	99	1.995635	159	2.201397	219	2.340444
40	1.602060	100	2.000000	160	2.204120	220	2.342423
41	1.612784	101	2.004321	161	2.206826	221	2.344392
42	1.623249	102	2.008600	162	2.209515	222	2.346353
43	1.633468	103	2.012837	163	2.212188	223	2.348305
44	1.643453	104	2.017033	164	2.214844	224	2.350248
45	1.653213	105	2.021189	165	2.217484	225	2.352183
46	1.662758	106	2.025306	166	2.220108	226	2.354108
47	1.672098	107	2.029384	167	2.222716	227	2.356026
48	1.681241	108	2.033424	168	2.225309	228	2.357935
49	1.690196	109	2.037426	169	2.227887	229	2.359835
50	1.698970	110	2.041393	170	2.230449	230	2.361728
51	1.707570	111	2.045323	171	2.232996	231	2.363612
52	1.716003	112	2.049218	172	2.235528	232	2.365488
53	1.724276	113	2.053078	173	2.238046	233	2.367356
54	1.732394	114	2.056905	174	2.240549	234	2.369216
55	1.740363	115	2.060698	175	2.243038	235	2.371068
56	1.748186	116	2.064458	176	2.245513	236	2.372912
57	1.755875	117	2.068186	177	2.247973	237	2.374748
58	1.763428	118	2.071882	178	2.250420	238	2.376577
59	1.770852	119	2.075547	179	2.252853	239	2.378398
60	1.778151	120	2.079181	180	2.255273	240	2.380211
241	2.382017					241	2.382017
242	2.383815					242	2.383815
243	2.385606					243	2.385606
244	2.387390					244	2.387390
245	2.389166					245	2.389166
246	2.390935					246	2.390935
247	2.392697					247	2.392697
248	2.394452					248	2.394452
249	2.396199					249	2.396199
250	2.397940					250	2.397940
251	2.399674					251	2.399674
252	2.401400					252	2.401400
253	2.403121					253	2.403121
254	2.404834					254	2.404834
255	2.406540					255	2.406540
256	2.408240					256	2.408240
257	2.409933					257	2.409933
258	2.411620					258	2.411620
259	2.413300					259	2.413300
260	2.414973					260	2.414973
261	2.416641					261	2.416641
262	2.418301					262	2.418301
263	2.419956					263	2.419956
264	2.421604					264	2.421604
265	2.423246					265	2.423246
266	2.424882					266	2.424882
267	2.426511					267	2.426511
268	2.428135					268	2.428135
269	2.429752					269	2.429752
270	2.431364					270	2.431364
271	2.432969					271	2.432969
272	2.434569					272	2.434569
273	2.436163					273	2.436163
274	2.437751					274	2.437751
275	2.439333					275	2.439333
276	2.440909					276	2.440909
277	2.442480					277	2.442480
278	2.444045					278	2.444045
279	2.445604					279	2.445604
280	2.447158					280	2.447158
281	2.448706					281	2.448706
282	2.450249					282	2.450249
283	2.451786					283	2.451786
284	2.453318					284	2.453318
285	2.454845					285	2.454845
286	2.456366					286	2.456366
287	2.457882					287	2.457882
288	2.459392					288	2.459392
289	2.460898					289	2.460898
290	2.462398					290	2.462398
291	2.463893					291	2.463893
292	2.465383					292	2.465383
293	2.466868					293	2.466868
294	2.468347					294	2.468347
295	2.469822					295	2.469822
296	2.471292					296	2.471292
297	2.472756					297	2.472756
298	2.474216					298	2.474216
299	2.475671					299	2.475671
300	2.477121					300	2.477121



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
301	2.478566	361	2.557507	421	2.624282	481	2.682145	541	2.733197
302	2.480007	362	2.558709	422	2.625312	482	2.683047	542	2.733999
303	2.481443	363	2.559907	423	2.626340	483	2.683947	543	2.734800
304	2.482874	364	2.561101	424	2.627366	484	2.684845	544	2.735599
305	2.484300	365	2.562293	425	2.628389	485	2.685742	545	2.736397
306	2.485721	366	2.563481	426	2.629410	486	2.686636	546	2.737193
307	2.487138	367	2.564666	427	2.630428	487	2.687529	547	2.737987
308	2.488551	368	2.565848	428	2.631444	488	2.688420	548	2.738781
309	2.489958	369	2.567026	429	2.632457	489	2.689309	549	2.739572
310	2.491362	370	2.568202	430	2.633468	490	2.690196	550	2.740363
311	2.492760	371	2.569374	431	2.634477	491	2.691081	551	2.741152
312	2.494155	372	2.570543	432	2.635484	492	2.691965	552	2.741939
313	2.495544	373	2.571709	433	2.636488	493	2.692847	553	2.742725
314	2.496930	374	2.572872	434	2.637490	494	2.693727	554	2.743510
315	2.498311	375	2.574031	435	2.638489	495	2.694605	555	2.744293
316	2.499687	376	2.575188	436	2.639486	496	2.695482	556	2.745075
317	2.501059	377	2.576341	437	2.640481	497	2.696356	557	2.745855
318	2.502427	378	2.577492	438	2.641474	498	2.697229	558	2.746634
319	2.503791	379	2.578639	439	2.642465	499	2.698101	559	2.747412
320	2.505150	380	2.579784	440	2.643453	500	2.698970	560	2.748188
321	2.506505	381	2.580925	441	2.644439	501	2.699838	561	2.748963
322	2.507856	382	2.582063	442	2.645422	502	2.700704	562	2.749739
323	2.509203	383	2.583199	443	2.646404	503	2.701568	563	2.750516
324	2.510545	384	2.584331	444	2.647383	504	2.702431	564	2.751291
325	2.511883	385	2.585461	445	2.648360	505	2.703291	565	2.752068
326	2.513218	386	2.586587	446	2.649335	506	2.704151	566	2.752846
327	2.514548	387	2.587711	447	2.650307	507	2.705008	567	2.753623
328	2.515874	388	2.588832	448	2.651278	508	2.705864	568	2.754398
329	2.517196	389	2.589950	449	2.652246	509	2.706718	569	2.755172
330	2.518514	390	2.591065	450	2.653212	510	2.707570	570	2.755945
331	2.519828	391	2.592177	451	2.654176	511	2.708421	571	2.756716
332	2.521138	392	2.593286	452	2.655138	512	2.709270	572	2.757486
333	2.522444	393	2.594393	453	2.656098	513	2.710117	573	2.758255
334	2.523746	394	2.595496	454	2.657056	514	2.710963	574	2.759022
335	2.525045	395	2.596597	455	2.658011	515	2.711807	575	2.759788
336	2.526339	396	2.597695	456	2.658965	516	2.712650	576	2.760552
337	2.527630	397	2.598791	457	2.659916	517	2.713491	577	2.761316
338	2.528917	398	2.599883	458	2.660865	518	2.714330	578	2.762078
339	2.530200	399	2.600973	459	2.661813	519	2.715167	579	2.762839
340	2.531479	400	2.602060	460	2.662758	520	2.716003	580	2.763598
341	2.532754	401	2.603144	461	2.663701	521	2.716838	581	2.764356
342	2.534026	402	2.604226	462	2.664642	522	2.717671	582	2.765112
343	2.535294	403	2.605305	463	2.665581	523	2.718502	583	2.765866
344	2.536558	404	2.606381	464	2.666518	524	2.719331	584	2.766618
345	2.537819	405	2.607455	465	2.667453	525	2.720159	585	2.767368
346	2.539076	406	2.608526	466	2.668386	526	2.720986	586	2.768116
347	2.540329	407	2.609594	467	2.669317	527	2.721811	587	2.768861
348	2.541579	408	2.610660	468	2.670246	528	2.722634	588	2.769604
349	2.542825	409	2.611723	469	2.671173	529	2.723456	589	2.770345
350	2.544068	410	2.612784	470	2.672098	530	2.724276	590	2.771084
351	2.545307	411	2.613842	471	2.673021	531	2.725094	591	2.771821
352	2.546543	412	2.614897	472	2.673942	532	2.725912	592	2.772556
353	2.547775	413	2.615950	473	2.674861	533	2.726727	593	2.773289
354	2.549003	414	2.617000	474	2.675778	534	2.727541	594	2.774020
355	2.550228	415	2.618048	475	2.676694	535	2.728354	595	2.774749
356	2.551450	416	2.619093	476	2.677607	536	2.729165	596	2.775476
357	2.552668	417	2.620136	477	2.678518	537	2.729974	597	2.776201
358	2.553883	418	2.621176	478	2.679428	538	2.730782	598	2.776924
359	2.555094	419	2.622214	479	2.680336	539	2.731589	599	2.777647
360	2.556303	420	2.623249	480	2.681241	540	2.732394	600	2.778368



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
601	2.778874	661	2.820201	721	2.857935	781	2.892651	841	2.924796
602	2.779596	662	2.820858	722	2.858537	782	2.893207	842	2.925312
603	2.780317	663	2.821514	723	2.859138	783	2.893762	843	2.925828
604	2.781037	664	2.822168	724	2.859739	784	2.894316	844	2.926342
605	2.781755	665	2.822822	725	2.860338	785	2.894870	845	2.926857
606	2.782473	666	2.823474	726	2.860937	786	2.895423	846	2.927370
607	2.783189	667	2.824126	727	2.861534	787	2.895975	847	2.927883
608	2.783904	668	2.824776	728	2.862131	788	2.896526	848	2.928396
609	2.784617	669	2.825426	729	2.862728	789	2.897077	849	2.928908
610	2.785330	670	2.826075	730	2.863323	790	2.897627	850	2.929419
611	2.786041	671	2.826723	731	2.863917	791	2.898176	851	2.929930
612	2.786751	672	2.827369	732	2.864511	792	2.898725	852	2.930440
613	2.787460	673	2.828015	733	2.865104	793	2.899273	853	2.930949
614	2.788168	674	2.828660	734	2.865696	794	2.899821	854	2.931458
615	2.788875	675	2.829304	735	2.866287	795	2.900367	855	2.931966
616	2.789581	676	2.829947	736	2.866878	796	2.900913	856	2.932474
617	2.790285	677	2.830589	737	2.867467	797	2.901458	857	2.932981
618	2.790988	678	2.831230	738	2.868056	798	2.902003	858	2.933487
619	2.791691	679	2.831870	739	2.868644	799	2.902547	859	2.933993
620	2.792392	680	2.832509	740	2.869232	800	2.903090	860	2.934498
621	2.793092	681	2.833147	741	2.869818	801	2.903633	861	2.935003
622	2.793790	682	2.833784	742	2.870404	802	2.904174	862	2.935507
623	2.794488	683	2.834421	743	2.870989	803	2.904716	863	2.936011
624	2.795185	684	2.835056	744	2.871573	804	2.905256	864	2.936514
625	2.795880	685	2.835691	745	2.872156	805	2.905796	865	2.937016
626	2.796574	686	2.836324	746	2.872739	806	2.906335	866	2.937518
627	2.797268	687	2.836957	747	2.873321	807	2.906874	867	2.938019
628	2.797960	688	2.837588	748	2.873902	808	2.907411	868	2.938520
629	2.798651	689	2.838219	749	2.874482	809	2.907949	869	2.939020
630	2.799341	690	2.838849	750	2.875061	810	2.908485	870	2.939519
631	2.800029	691	2.839478	751	2.875640	811	2.909021	871	2.940018
632	2.800717	692	2.840106	752	2.876218	812	2.909556	872	2.940516
633	2.801404	693	2.840733	753	2.876795	813	2.910091	873	2.941014
634	2.802089	694	2.841359	754	2.877371	814	2.910624	874	2.941511
635	2.802774	695	2.841985	755	2.877947	815	2.911158	875	2.942008
636	2.803457	696	2.842609	756	2.878522	816	2.911690	876	2.942504
637	2.804139	697	2.843233	757	2.879096	817	2.912222	877	2.943000
638	2.804821	698	2.843855	758	2.879669	818	2.912753	878	2.943495
639	2.805501	699	2.844477	759	2.880242	819	2.913284	879	2.943989
640	2.806180	700	2.845098	760	2.880814	820	2.913814	880	2.944483
641	2.806858	701	2.845718	761	2.881385	821	2.914343	881	2.944976
642	2.807535	702	2.846337	762	2.881955	822	2.914872	882	2.945469
643	2.808211	703	2.846955	763	2.882525	823	2.915400	883	2.945961
644	2.808886	704	2.847573	764	2.883093	824	2.915927	884	2.946452
645	2.809560	705	2.848189	765	2.883661	825	2.916454	885	2.946943
646	2.810232	706	2.848805	766	2.884229	826	2.916980	886	2.947434
647	2.810904	707	2.849419	767	2.884795	827	2.917506	887	2.947924
648	2.811575	708	2.850033	768	2.885361	828	2.918030	888	2.948413
649	2.812245	709	2.850646	769	2.885926	829	2.918555	889	2.948902
650	2.812913	710	2.851258	770	2.886491	830	2.919078	890	2.949390
651	2.813581	711	2.851870	771	2.887054	831	2.919601	891	2.949878
652	2.814248	712	2.852480	772	2.887617	832	2.920123	892	2.950365
653	2.814913	713	2.853090	773	2.888179	833	2.920644	893	2.950851
654	2.815578	714	2.853698	774	2.888741	834	2.921166	894	2.951338
655	2.816241	715	2.854306	775	2.889302	835	2.921686	895	2.951823
656	2.816904	716	2.854913	776	2.889862	836	2.922206	896	2.952308
657	2.817565	717	2.855519	777	2.890421	837	2.922725	897	2.952792
658	2.818226	718	2.856124	778	2.890980	838	2.923244	898	2.953276
659	2.818885	719	2.856729	779	2.891537	839	2.923762	899	2.953760
660	2.819544	720	2.857332	780	2.892095	840	2.924279	900	2.954243



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
901	2.954725	961	2.982723	1021	3.009026	1081	3.033826	1141	3.057286
902	2.955207	962	2.983175	22	3.009451	82	3.034227	42	3.057666
903	2.955688	963	2.983626	23	3.009876	83	3.034618	43	3.058046
904	2.956168	964	2.984077	24	3.010300	84	3.035029	44	3.058426
905	2.956649	965	2.984527	25	3.010724	85	3.035430	45	3.058805
906	2.957128	966	2.984977	1026	3.011147	1086	3.035830	1146	3.059185
907	2.957607	967	2.985426	27	3.011570	87	3.036229	47	3.059563
908	2.958086	968	2.985875	28	3.011993	88	3.036629	48	3.059942
909	2.958564	969	2.986324	29	3.012415	89	3.037028	49	3.060320
910	2.959041	970	2.986772	30	3.012837	90	3.037426	50	3.060698
911	2.959518	971	0.987219	1031	3.013259	1091	3.037825	1151	3.061075
912	2.959995	972	2.987666	32	3.013680	92	3.038223	52	3.061452
913	2.960471	973	2.988113	33	3.014100	93	3.038620	53	3.061829
914	2.960946	974	2.988559	34	3.014521	94	3.039017	54	3.062206
915	2.961421	975	2.989005	35	3.014940	95	3.039414	55	3.062582
916	2.961895	976	2.989450	1036	3.015360	1096	3.039811	1156	3.062958
917	2.962369	977	2.989895	37	3.015779	97	3.040207	57	3.063333
918	2.962843	978	2.990339	38	3.016197	98	3.040602	58	3.063709
919	2.963316	979	2.990783	39	3.016616	99	3.040998	59	3.064083
920	2.963788	980	2.991226	40	3.017033	1100	3.041393	60	3.064458
921	2.964260	981	2.991669	1041	3.017451	1101	3.041787	1161	3.064832
922	2.964731	982	2.992111	42	3.017868	2	3.042182	62	3.065206
923	2.965202	983	2.992554	43	3.018284	3	3.042576	63	3.065580
924	2.965672	984	2.992995	44	3.018700	4	3.042969	64	3.065953
925	2.966142	985	2.993436	45	3.019116	5	3.043362	65	3.066326
926	2.966611	986	2.993877	1046	3.019532	1106	3.043755	1166	3.066699
927	2.967080	987	2.994317	47	3.019947	7	3.044148	67	3.067071
928	2.967548	988	2.994757	48	3.020361	8	3.044540	68	3.067443
929	2.968016	989	2.995196	49	3.020775	9	3.044932	69	3.067815
930	2.968483	990	2.995635	50	3.021189	10	3.045323	70	3.068186
931	2.968950	991	2.996074	1051	3.021603	1111	3.045714	1171	3.068557
932	2.969416	992	2.996512	52	3.022016	12	3.046105	72	3.068928
933	2.969882	993	2.996949	53	3.022428	13	3.046495	73	3.069298
934	2.970347	994	2.997386	54	3.022841	14	3.046885	74	3.069668
935	2.970812	995	2.997823	55	3.023252	15	3.047275	75	3.070038
936	2.971276	996	2.998259	1056	3.023664	1116	3.047664	1176	3.070407
937	2.971740	997	2.998695	57	3.024075	17	3.048053	77	3.070776
938	2.972203	998	2.999131	58	3.024486	18	3.048442	78	3.071145
939	2.972666	999	2.999565	59	3.024896	19	3.048830	79	3.071514
940	2.973128	1000	3.000000	60	3.025306	20	3.049218	80	3.071882
941	2.973590	1001	3.000434	1061	3.025715	1121	3.049606	1181	3.072250
942	2.974051	2	3.000868	62	3.026125	22	3.049993	82	3.072617
943	2.974512	3	3.001301	63	3.026533	23	3.050380	83	3.072985
944	2.974972	4	3.001734	64	3.026942	24	3.050766	84	3.073352
945	2.975432	5	3.002166	65	3.027350	25	3.051153	85	3.073718
946	2.975891	1006	3.002598	1066	3.027757	1126	3.051538	1186	3.074085
947	2.976350	7	3.003029	67	3.028164	27	3.051924	87	3.074451
948	2.976808	8	3.003461	68	3.028571	28	3.052309	88	3.074816
949	2.977266	9	3.003891	69	3.028978	29	3.052694	89	3.075182
950	2.977724	10	3.004321	70	3.029384	30	3.053078	90	3.075547
951	2.978181	1011	3.004751	1071	3.029789	1131	3.053463	1191	3.075912
952	2.978637	12	3.005181	72	3.030195	32	3.053846	92	3.076276
953	2.979093	13	3.005609	73	3.030600	33	3.054230	93	3.076640
954	2.979548	14	3.006038	74	3.031004	34	3.054613	94	3.077004
955	2.980003	15	3.006466	75	3.031408	35	3.054996	95	3.077368
956	2.980458	1016	3.006894	1076	3.031812	1136	3.055378	1196	3.077731
957	2.980912	17	3.007321	77	3.032216	37	3.055760	97	3.078094
958	2.981366	18	3.007748	78	3.032619	38	3.056142	98	3.078457
959	2.981819	19	3.008174	79	3.033021	39	3.056524	99	3.078819
960	2.982271	20	3.008600	80	3.033424	40	3.056905	1200	3.079181



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
1201	3.079543	1261	3.100715	1321	3.120903	1381	3.140194	1441	3.158664
2	3.079904	62	3.101059	22	3.121231	82	3.140508	42	3.158965
3	3.080266	63	3.101403	23	3.121560	83	3.140822	43	3.159266
4	3.080626	64	3.101747	24	3.121888	84	3.141136	44	3.159567
5	3.080987	65	3.102091	25	3.122216	85	3.141450	45	3.159868
1206	3.081347	1266	3.102434	1326	3.122544	1386	3.141763	1446	3.160168
7	3.081707	67	3.102777	27	3.122871	87	3.142076	47	3.160468
8	3.082067	68	3.103119	28	3.123198	88	3.142389	48	3.160769
9	3.082426	69	3.103462	29	3.123525	89	3.142702	49	3.161068
10	3.082785	70	3.103804	30	3.123852	90	3.143015	50	3.161368
1211	3.083144	1271	3.104146	1331	3.124178	1391	3.143327	1451	3.161667
12	3.083503	72	3.104487	32	3.124504	92	3.143639	52	3.161967
13	3.083861	73	3.104828	33	3.124830	93	3.143951	53	3.162266
14	3.084219	74	3.105169	34	3.125156	94	3.144263	54	3.162564
15	3.084576	75	3.105510	35	3.125481	95	3.144574	55	3.162863
1216	3.084934	1276	3.105851	1336	3.125806	1396	3.144885	1456	3.163161
17	3.085291	77	3.106191	37	3.126131	97	3.145196	57	3.163460
18	3.085647	78	3.106531	38	3.126456	98	3.145507	58	3.163758
19	3.086004	79	3.106871	39	3.126781	99	3.145818	59	3.164055
20	3.086360	80	3.107210	40	3.127105	1400	3.146128	60	3.164353
1221	3.086716	1281	3.107549	1341	3.127429	1401	3.146438	1461	3.164650
22	3.087071	82	3.107888	42	3.127753	2	3.146748	62	3.164947
23	3.087426	83	3.108227	43	3.128076	3	3.147058	63	3.165244
24	3.087781	84	3.108565	44	3.128399	4	3.147367	64	3.165541
25	3.088136	85	3.108903	45	3.128722	5	3.147676	65	3.165838
1226	3.088490	1286	3.109241	1346	3.129045	1406	3.147985	1466	3.166134
27	3.088845	87	3.109579	47	3.129368	7	3.148294	67	3.166430
28	3.089198	88	3.109916	48	3.129690	8	3.148603	68	3.166726
29	3.089552	89	3.110253	49	3.130012	9	3.148911	69	3.167022
30	3.089905	90	3.110590	50	3.130334	10	3.149219	70	3.167317
1231	3.090258	1291	3.110926	1351	3.130655	1411	3.149527	1471	3.167613
32	3.090611	92	3.111263	52	3.130977	12	3.149835	72	3.167908
33	3.090963	93	3.111599	53	3.131298	13	3.150142	73	3.168203
34	3.091315	94	3.111934	54	3.131619	14	3.150449	74	3.168497
35	3.091667	95	3.112270	55	3.131939	15	3.150756	75	3.168792
1236	3.092018	1296	3.112605	1356	3.132260	1416	3.151063	1476	3.169086
37	3.092370	97	3.112940	57	3.132580	17	3.151370	77	3.169380
38	3.092721	98	3.113275	58	3.132900	18	3.151676	78	3.169674
39	3.093071	99	3.113609	59	3.133219	19	3.151982	79	3.169968
40	3.093422	1300	3.113943	60	3.133539	20	3.152288	80	3.170262
1241	3.093772	1301	3.114277	1361	3.133858	1421	3.152594	1481	3.170555
42	3.094122	2	3.114611	62	3.134177	22	3.152900	82	3.170848
43	3.094471	3	3.114944	63	3.134496	23	3.153205	83	3.171141
44	3.094820	4	3.115278	64	3.134814	24	3.153510	84	3.171434
45	3.095169	5	3.115611	65	3.135133	25	3.153815	85	3.171726
1246	3.095518	1306	3.115943	1366	3.135451	1426	3.154120	1486	3.172019
47	3.095866	7	3.116276	67	3.135769	27	3.154424	87	3.172311
48	3.096215	8	3.116608	68	3.136086	28	3.154728	88	3.172603
49	3.096562	9	3.116940	69	3.136403	29	3.155032	89	3.172895
50	3.096910	10	3.117271	70	3.136721	30	3.155336	90	3.173186
1251	3.097257	1311	3.117603	1371	3.137037	1431	3.155640	1491	3.173478
52	3.097604	12	3.117934	72	3.137354	32	3.155943	92	3.173769
53	3.097951	13	3.118265	73	3.137671	33	3.156246	93	3.174060
54	3.098298	14	3.118595	74	3.137987	34	3.156549	94	3.174351
55	3.098644	15	3.118926	75	3.138303	35	3.156852	95	3.174641
1256	3.098990	1316	3.119256	1376	3.138618	1436	3.157154	1496	3.174932
57	3.099335	17	3.119586	77	3.138934	37	3.157457	97	3.175222
58	3.099681	18	3.119915	78	3.139249	38	3.157759	98	3.175512
59	3.100026	19	3.120245	79	3.139564	39	3.158061	99	3.175802
60	3.100371	20	3.120574	80	3.139879	40	3.158362	1500	3.176091



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
1501	3.176381	1561	3.193403	1621	3.209783	1681	3.225568	1741	3.240799
2	3.176670	62	3.193681	22	3.210051	82	3.225826	42	3.241048
3	3.176959	63	3.193959	23	3.210319	83	3.226084	43	3.241297
4	3.177248	64	3.194237	24	3.210586	84	3.226342	44	3.241546
5	3.177536	65	3.194514	25	3.210853	85	3.226600	45	3.241795
1506	3.177825	1566	3.194792	1626	3.211121	1686	3.226858	1746	3.242044
7	3.178113	67	3.195069	27	3.211388	87	3.227115	47	3.242293
8	3.178402	68	3.195346	28	3.211654	88	3.227372	48	3.242541
9	3.178689	69	3.195623	29	3.211921	89	3.227630	49	3.242790
10	3.178977	70	3.195900	30	3.212188	90	3.227887	50	3.243038
1511	3.179264	1571	3.196176	1631	3.212454	1691	3.228144	1751	3.243286
12	3.179552	72	3.196453	32	3.212720	92	3.228400	52	3.243534
13	3.179839	73	3.196729	33	3.212986	93	3.228657	53	3.243782
14	3.180126	74	3.197005	34	3.213252	94	3.228913	54	3.244030
15	3.180413	75	3.197281	35	3.213518	95	3.229170	55	3.244277
1516	3.180699	1576	3.197556	1636	3.213783	1696	3.229426	1756	3.244524
17	3.180986	77	3.197832	37	3.214049	97	3.229682	57	3.244772
18	3.181272	78	3.198107	38	3.214314	98	3.229938	58	3.245019
19	3.181558	79	3.198382	39	3.214579	99	3.230193	59	3.245266
20	3.181844	80	3.198657	40	3.214844	1700	3.230449	60	3.245513
1521	3.182129	1581	3.198932	1641	3.215109	1701	3.230704	1761	3.245759
22	3.182415	82	3.199206	42	3.215373	2	3.230960	62	3.246006
23	3.182700	83	3.199481	43	3.215638	3	3.231215	63	3.246252
24	3.182985	84	3.199755	44	3.215902	4	3.231470	64	3.246499
25	3.183270	85	3.200029	45	3.216166	5	3.231724	65	3.246745
1526	3.183555	1586	3.200303	1646	3.216430	1706	3.231979	1766	3.246991
27	3.183839	87	3.200577	47	3.216694	7	3.232234	67	3.247237
28	3.184123	88	3.200850	48	3.216957	8	3.232488	68	3.247482
29	3.184407	89	3.201124	49	3.217221	9	3.232742	69	3.247728
30	3.184691	90	3.201397	50	3.217484	10	3.232996	70	3.247973
1531	3.184975	1591	3.201670	1651	3.217747	1711	3.233250	1771	3.248219
32	3.185259	92	3.201943	52	3.218010	12	3.233504	72	3.248464
33	3.185542	93	3.202216	53	3.218273	13	3.233757	73	3.248709
34	3.185825	94	3.202488	54	3.218536	14	3.234011	74	3.248954
35	3.186108	95	3.202761	55	3.218798	15	3.234264	75	3.249198
1536	3.186391	1596	3.203033	1656	3.219060	1716	3.234517	1776	3.249443
37	3.186674	97	3.203305	57	3.219323	17	3.234770	77	3.249687
38	3.186956	98	3.203577	58	3.219585	18	3.235023	78	3.249932
39	3.187239	99	3.203848	59	3.219846	19	3.235276	79	3.250176
40	3.187521	1600	3.204120	60	3.220108	20	3.235528	80	3.250420
1541	3.187803	1601	3.204391	1661	3.220370	1721	3.235781	1781	3.250664
42	3.188084	2	3.204663	62	3.220631	22	3.236033	82	3.250908
43	3.188366	3	3.204934	63	3.220892	23	3.236285	83	3.251151
44	3.188647	4	3.205204	64	3.221153	24	3.236537	84	3.251395
45	3.188928	5	3.205475	65	3.221414	25	3.236789	85	3.251638
1546	3.189209	1606	3.205746	1666	3.221675	1726	3.237041	1786	3.251881
47	3.189490	7	3.206016	67	3.221936	27	3.237292	87	3.252125
48	3.189771	8	3.206286	68	3.222196	28	3.237544	88	3.252368
49	3.190051	9	3.206556	69	3.222456	29	3.237795	89	3.252610
50	3.190332	10	3.206826	70	3.222716	30	3.238046	90	3.252853
1551	3.190612	1611	3.207096	1671	3.222976	1731	3.238297	1791	3.253096
52	3.190892	12	3.207365	72	3.223236	32	3.238548	92	3.253338
53	3.191171	13	3.207634	73	3.223496	33	3.238799	93	3.253580
54	3.191451	14	3.207904	74	3.223755	34	3.239049	94	3.253822
55	3.191730	15	3.208173	75	3.224015	35	3.239299	95	3.254064
1556	3.192010	1616	3.208441	1676	3.224274	1736	3.239550	1796	3.254306
57	3.192289	17	3.208710	77	3.224533	37	3.239800	97	3.254548
58	3.192567	18	3.208979	78	3.224792	38	3.240050	98	3.254790
59	3.192846	19	3.209247	79	3.225051	39	3.240300	99	3.255031
60	3.193125	20	3.209515	80	3.225309	40	3.240549	1800	3.255273



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
1801	3.255514	1861	3.269746	1921	3.283527	1981	3.296884	2041	3.309843
2	3.255755	62	3.269980	22	3.283753	82	3.297104	42	3.310056
3	3.255996	63	3.270213	23	3.283979	83	3.297323	43	3.310268
4	3.256236	64	3.270446	24	3.284205	84	3.297542	44	3.310481
5	3.256477	65	3.270679	25	3.284431	85	3.297761	45	3.310693
1806	3.256718	1866	3.270912	1926	3.284656	1986	3.297979	2046	3.310906
7	3.256958	67	3.271144	27	3.284882	87	3.298198	47	3.311118
8	3.257198	68	3.271377	28	3.285107	88	3.298416	48	3.311330
9	3.257439	69	3.271609	29	3.285332	89	3.298635	49	3.311542
10	3.257679	70	3.271842	30	3.285557	90	3.298853	50	3.311754
1811	3.257918	1871	3.272074	1931	3.285782	1991	3.299071	2051	3.311966
12	3.258158	72	3.272306	32	3.286007	92	3.299289	52	3.312177
13	3.258398	73	3.272538	33	3.286232	93	3.299507	53	3.312389
14	3.258637	74	3.272770	34	3.286456	94	3.299725	54	3.312600
15	3.258877	75	3.273001	35	3.286681	95	3.299943	55	3.312812
1816	3.259116	1876	3.273233	1936	3.286905	1996	3.300161	2056	3.313023
17	3.259355	77	3.273464	37	3.287130	97	3.300378	57	3.313234
18	3.259594	78	3.273696	38	3.287354	98	3.300595	58	3.313445
19	3.259833	79	3.273927	39	3.287578	99	3.300813	59	3.313656
20	3.260071	80	3.274158	40	3.287802	2000	3.301030	60	3.313867
1821	3.260310	1881	3.274389	1941	3.288026	2001	3.301247	2061	3.314078
22	3.260548	82	3.274620	42	3.288249	2	3.301464	62	3.314289
23	3.260787	83	3.274850	43	3.288473	3	3.301681	63	3.314499
24	3.261025	84	3.275081	44	3.288696	4	3.301898	64	3.314710
25	3.261263	85	3.275311	45	3.288920	5	3.302114	65	3.314920
1826	3.261501	1886	3.275542	1946	3.289143	2006	3.302331	2066	3.315130
27	3.261739	87	3.275772	47	3.289366	7	3.302547	67	3.315340
28	3.261976	88	3.276002	48	3.289589	8	3.302764	68	3.315551
29	3.262214	89	3.276232	49	3.289812	9	3.302980	69	3.315760
30	3.262451	90	3.276462	50	3.290035	10	3.303196	70	3.315970
1831	3.262688	1891	3.276692	1951	3.290257	2011	3.303412	2071	3.316180
32	3.262925	92	3.276921	52	3.290480	12	3.303628	72	3.316390
33	3.263162	93	3.277151	53	3.290702	13	3.303844	73	3.316600
34	3.263399	94	3.277380	54	3.290925	14	3.304059	74	3.316809
35	3.263636	95	3.277609	55	3.291147	15	3.304275	75	3.317018
1836	3.263873	1896	3.277838	1956	3.291369	2016	3.304491	2076	3.317227
37	3.264109	97	3.278067	57	3.291591	17	3.304706	77	3.317436
38	3.264346	98	3.278296	58	3.291813	18	3.304921	78	3.317646
39	3.264582	99	3.278525	59	3.292034	19	3.305136	79	3.317854
40	3.264818	1900	3.278754	60	3.292256	20	3.305351	80	3.318063
1841	3.265054	1901	3.278982	1961	3.292478	2021	3.305566	2081	3.318272
42	3.265290	2	3.279211	62	3.292699	22	3.305781	82	3.318481
43	3.265525	3	3.279439	63	3.292920	23	3.305996	83	3.318689
44	3.265761	4	3.279667	64	3.293141	24	3.306211	84	3.318898
45	3.265996	5	3.279895	65	3.293363	25	3.306425	85	3.319106
1846	3.266232	1906	3.280123	1966	3.293584	2026	3.306639	2086	3.319314
47	3.266467	7	3.280351	67	3.293804	27	3.306854	87	3.319522
48	3.266702	8	3.280578	68	3.294025	28	3.307068	88	3.319730
49	3.266937	9	3.280806	69	3.294246	29	3.307282	89	3.319938
50	3.267172	10	3.281033	70	3.294466	30	3.307496	90	3.320146
1851	3.267406	1911	3.281261	1971	3.294687	2031	3.307710	2091	3.320354
52	3.267641	12	3.281488	72	3.294907	32	3.307924	92	3.320562
53	3.267875	13	3.281715	73	3.295127	33	3.308137	93	3.320769
54	3.268110	14	3.281942	74	3.295347	34	3.308351	94	3.320977
55	3.268344	15	3.282169	75	3.295567	35	3.308564	95	3.321184
1856	3.268578	1916	3.282396	1976	3.295787	2036	3.308778	2096	3.321391
57	3.268812	17	3.282622	77	3.296007	37	3.308991	97	3.321598
58	3.269046	18	3.282849	78	3.296226	38	3.309204	98	3.321805
59	3.269279	19	3.283075	79	3.296446	39	3.309417	99	3.322012
60	3.269513	20	3.283301	80	3.296665	40	3.309630	2100	3.322219



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
2101	3.322426	2161	3.334655	2221	3.346549	2281	3.358125	2341	3.369401
2	3.322633	62	3.334856	22	3.346744	82	3.358316	42	3.369587
3	3.322839	63	3.335056	23	3.346939	83	3.358506	43	3.369772
4	3.323046	64	3.335257	24	3.347135	84	3.358696	44	3.369958
5	3.323252	65	3.335458	25	3.347330	85	3.358886	45	3.370143
2106	3.323458	2166	3.335658	2226	3.347525	2286	3.359076	2346	3.370328
7	3.323665	67	3.335859	27	3.347720	87	3.359266	47	3.370513
8	3.323871	68	3.336059	28	3.347915	88	3.359456	48	3.370698
9	3.324077	69	3.336260	29	3.348110	89	3.359646	49	3.370883
10	3.324282	70	3.336460	30	3.348305	90	3.359835	50	3.371068
2111	3.324488	2171	3.336660	2231	3.348500	2291	3.360025	2351	3.371253
12	3.324694	72	3.336860	32	3.348694	92	3.360215	52	3.371437
13	3.324899	73	3.337060	33	3.348889	93	3.360404	53	3.371622
14	3.325105	74	3.337260	34	3.349083	94	3.360593	54	3.371806
15	3.325310	75	3.337459	35	3.349278	95	3.360782	55	3.371991
2116	3.325516	2176	3.337659	2236	3.349472	2296	3.360972	2356	3.372175
17	3.325721	77	3.337858	37	3.349666	97	3.361161	57	3.372360
18	3.325926	78	3.338058	38	3.349860	98	3.361350	58	3.372544
19	3.326131	79	3.338257	39	3.350054	99	3.361539	59	3.372728
20	3.326336	80	3.338456	40	3.350248	2300	3.361728	60	3.372912
2121	3.326541	2181	3.338656	2241	3.350442	2301	3.361917	2361	3.373096
22	3.326745	82	3.338855	42	3.350636	2	3.362105	62	3.373280
23	3.326950	83	3.339054	43	3.350829	3	3.362294	63	3.373464
24	3.327155	84	3.339253	44	3.351023	4	3.362482	64	3.373647
25	3.327359	85	3.339451	45	3.351216	5	3.362671	65	3.373831
2126	3.327563	2186	3.339650	2246	3.351410	2306	3.362859	2366	3.374015
27	3.327767	87	3.339849	47	3.351603	7	3.363048	67	3.374198
28	3.327972	88	3.340047	48	3.351796	8	3.363236	68	3.374382
29	3.328176	89	3.340246	49	3.351989	9	3.363424	69	3.374565
30	3.328380	90	3.340444	50	3.352183	10	3.363612	70	3.374748
2131	3.328583	2191	3.340642	2251	3.352375	2311	3.363800	2371	3.374932
32	3.328787	92	3.340841	52	3.352568	12	3.363988	72	3.375115
33	3.328991	93	3.341039	53	3.352761	13	3.364176	73	3.375298
34	3.329194	94	3.341237	54	3.352954	14	3.364363	74	3.375481
35	3.329398	95	3.341435	55	3.353147	15	3.364551	75	3.375664
2136	3.329601	2196	3.341632	2256	3.353339	2316	3.364739	2376	3.375846
37	3.329805	97	3.341830	57	3.353532	17	3.364925	77	3.376029
38	3.330008	98	3.342028	58	3.353724	18	3.365113	78	3.376212
39	3.330211	99	3.342225	59	3.353916	19	3.365301	79	3.376394
40	3.330414	2200	3.342423	60	3.354108	20	3.365488	80	3.376577
2141	3.330617	2201	3.342620	2261	3.354301	2321	3.365675	2381	3.376759
42	3.330819	2	3.342817	62	3.354493	22	3.365862	82	3.376942
43	3.331022	3	3.343014	63	3.354685	23	3.366049	83	3.377124
44	3.331225	4	3.343212	64	3.354876	24	3.366236	84	3.377306
45	3.331427	5	3.343409	65	3.355068	25	3.366423	85	3.377488
2146	3.331630	2206	3.343606	2266	3.355260	2326	3.366610	2386	3.377670
47	3.331832	7	3.343802	67	3.355452	27	3.366796	87	3.377852
48	3.332034	8	3.343999	68	3.355643	28	3.366983	88	3.378034
49	3.332236	9	3.344196	69	3.355834	29	3.367169	89	3.378216
50	3.332438	10	3.344392	70	3.356026	30	3.367356	90	3.378398
2151	3.332640	2211	3.344589	2271	3.356217	2331	3.367542	2391	3.378580
52	3.332842	12	3.344785	72	3.356408	32	3.367729	92	3.378761
53	3.333044	13	3.344981	73	3.356599	33	3.367915	93	3.378943
54	3.333246	14	3.345178	74	3.356790	34	3.368101	94	3.379124
55	3.333447	15	3.345374	75	3.356981	35	3.368287	95	3.379306
2156	3.333649	2216	3.345570	2276	3.357172	2336	3.368473	2396	3.379487
57	3.333850	17	3.345766	77	3.357363	37	3.368659	97	3.379668
58	3.334051	18	3.345962	78	3.357554	38	3.368844	98	3.379849
59	3.334253	19	3.346157	79	3.357744	39	3.369030	99	3.380030
60	3.334454	20	3.346353	80	3.357935	40	3.369216	2400	3.380211



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
2401	3.380392	2461	3.391112	2521	3.401573	2581	3.411788	2641	3.421768
2	3.380573	62	3.391288	22	3.401745	82	3.411956	42	3.421933
3	3.380754	63	3.391464	23	3.401917	83	3.412124	43	3.422097
4	3.380934	64	3.391641	24	3.402089	84	3.412293	44	3.422261
5	3.381115	65	3.391817	25	3.402261	85	3.412461	45	3.422426
2406	3.381296	2466	3.391993	2526	3.402433	2586	3.412629	2646	3.422590
7	3.381476	67	3.392169	27	3.402605	87	3.412796	47	3.422754
8	3.381656	68	3.392345	28	3.402777	88	3.412964	48	3.422918
9	3.381837	69	3.392521	29	3.402949	89	3.413132	49	3.423082
10	3.382017	70	3.392697	30	3.403121	90	3.413300	50	3.423246
2411	3.382197	2471	3.392873	2531	3.403292	2591	3.413467	2651	3.423410
12	3.382377	72	3.393048	32	3.403464	92	3.413635	52	3.423574
13	3.382557	73	3.393224	33	3.403635	93	3.413803	53	3.423737
14	3.382737	74	3.393400	34	3.403807	94	3.413970	54	3.423901
15	3.382917	75	3.393575	35	3.403978	95	3.414137	55	3.424065
2416	3.383097	2476	3.393751	2536	3.404149	2596	3.414305	2656	3.424228
17	3.383277	77	3.393926	37	3.404320	97	3.414472	57	3.424392
18	3.383456	78	3.394101	38	3.404492	98	3.414639	58	3.424555
19	3.383636	79	3.394277	39	3.404663	99	3.414806	59	3.424718
20	3.383815	80	3.394452	40	3.404834	2600	3.414973	60	3.424882
2421	3.383995	2481	3.394627	2541	3.405005	2601	3.415140	2661	3.425045
22	3.384174	82	3.394802	42	3.405176	2	3.415307	62	3.425208
23	3.384353	83	3.394977	43	3.405346	3	3.415474	63	3.425371
24	3.384533	84	3.395152	44	3.405517	4	3.415641	64	3.425534
25	3.384712	85	3.395326	45	3.405688	5	3.415808	65	3.425697
2426	3.384891	2486	3.395501	2546	3.405858	2606	3.415974	2666	3.425860
27	3.385070	87	3.395676	47	3.406029	7	3.416141	67	3.426023
28	3.385249	88	3.395850	48	3.406199	8	3.416308	68	3.426186
29	3.385428	89	3.396025	49	3.406370	9	3.416474	69	3.426349
30	3.385606	90	3.396199	50	3.406540	10	3.416641	70	3.426511
2431	3.385785	2491	3.396374	2551	3.406710	2611	3.416807	2671	3.426674
32	3.385964	92	3.396548	52	3.406881	12	3.416973	72	3.426836
33	3.386142	93	3.396722	53	3.407051	13	3.417139	73	3.426999
34	3.386321	94	3.396896	54	3.407221	14	3.417306	74	3.427161
35	3.386499	95	3.397071	55	3.407391	15	3.417472	75	3.427324
2436	3.386677	2496	3.397245	2556	3.407561	2616	3.417638	2676	3.427486
37	3.386856	97	3.397419	57	3.407731	17	3.417804	77	3.427648
38	3.387034	98	3.397592	58	3.407901	18	3.417970	78	3.427811
39	3.387212	99	3.397766	59	3.408070	19	3.418135	79	3.427973
40	3.387390	2500	3.397940	60	3.408240	20	3.418301	80	3.428135
2441	3.387568	2501	3.398114	2561	3.408410	2621	3.418467	2681	3.428297
42	3.387746	2	3.398287	62	3.408579	22	3.418633	82	3.428459
43	3.387923	3	3.398461	63	3.408749	23	3.418798	83	3.428621
44	3.388101	4	3.398634	64	3.408918	24	3.418964	84	3.428783
45	3.388279	5	3.398808	65	3.409087	25	3.419129	85	3.428944
2446	3.388456	2506	3.398981	2566	3.409257	2626	3.419295	2686	3.429106
47	3.388634	7	3.399154	67	3.409426	27	3.419460	87	3.429268
48	3.388811	8	3.399328	68	3.409595	28	3.419625	88	3.429429
49	3.388989	9	3.399501	69	3.409764	29	3.419791	89	3.429591
50	3.389166	10	3.399674	70	3.409933	30	3.419956	90	3.429752
2451	3.389343	2511	3.399847	2571	3.410102	2631	3.420121	2691	3.429914
52	3.389520	12	3.400020	72	3.410271	32	3.420286	92	3.430075
53	3.389698	13	3.400192	73	3.410440	33	3.420451	93	3.430236
54	3.389875	14	3.400365	74	3.410609	34	3.420616	94	3.430398
55	3.390051	15	3.400538	75	3.410777	35	3.420781	95	3.430559
2456	3.390228	2516	3.400711	2576	3.410946	2636	3.420945	2696	3.430720
57	3.390405	17	3.400883	77	3.411114	37	3.421110	97	3.430881
58	3.390582	18	3.401056	78	3.411283	38	3.421275	98	3.431042
59	3.390759	19	3.401228	79	3.411451	39	3.421439	99	3.431203
60	3.390935	20	3.401401	80	3.411620	40	3.421604	2700	3.431364

Navigation.



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
2701	3.431525	2761	3.441066	2821	3.450403	2881	3.459543	2941	3.468495
2	3.431685	62	3.441224	22	3.450577	22	3.459694	42	3.468643
3	3.431846	63	3.441381	23	3.450711	83	3.459845	43	3.468790
4	3.432007	64	3.441538	24	3.450865	84	3.459995	44	3.468938
5	3.432167	65	3.441695	25	3.451018	85	3.460146	45	3.469085
2706	3.432328	2766	3.441852	2826	3.451172	2886	3.460296	2946	3.469233
7	3.432488	67	3.442009	27	3.451326	87	3.460447	47	3.469380
8	3.432649	68	3.442166	28	3.451479	88	3.460597	48	3.469527
9	3.432809	69	3.442323	29	3.451633	89	3.460748	49	3.469675
10	3.432969	70	3.442480	30	3.451786	90	3.460898	50	3.469822
2711	3.433130	2771	3.442637	2831	3.451940	2891	3.461048	2951	3.469969
12	3.433290	72	3.442793	32	3.452093	92	3.461198	52	3.470116
13	3.433450	73	3.442950	33	3.452247	93	3.461348	53	3.470263
14	3.433610	74	3.443106	34	3.452400	94	3.461499	54	3.470410
15	3.433770	75	3.443263	35	3.452553	95	3.461649	55	3.470557
2716	3.433930	2776	3.443419	2836	3.452706	2896	3.461799	2956	3.470704
17	3.434090	77	3.443576	37	3.452859	97	3.461948	57	3.470851
18	3.434249	78	3.443732	38	3.453012	98	3.462098	58	3.470998
19	3.434409	79	3.443889	39	3.453165	99	3.462248	59	3.471145
20	3.434569	80	3.444045	40	3.453318	2900	3.462398	60	3.471292
2721	3.434729	2781	3.444201	2841	3.453471	2901	3.462548	2961	3.471438
22	3.434888	82	3.444357	42	3.453624	2	3.462697	62	3.471585
23	3.435048	83	3.444513	43	3.453777	3	3.462847	63	3.471732
24	3.435207	84	3.444669	44	3.453930	4	3.462997	64	3.471878
25	3.435367	85	3.444825	45	3.454082	5	3.463146	65	3.472025
2726	3.435526	2786	3.444981	2846	3.454235	2906	3.463296	2966	3.472171
27	3.435685	87	3.445137	47	3.454387	7	3.463445	67	3.472318
28	3.435844	88	3.445293	48	3.454540	8	3.463594	68	3.472464
29	3.436004	89	3.445449	49	3.454692	9	3.463744	69	3.472610
30	3.436163	90	3.445604	50	3.454845	10	3.463893	70	3.472756
2731	3.436322	2791	3.445760	2851	3.454997	2911	3.464042	2971	3.472903
32	3.436481	92	3.445915	52	3.455150	12	3.464191	72	3.473049
33	3.436640	93	3.446071	53	3.455302	13	3.464340	73	3.473195
34	3.436799	94	3.446226	54	3.455454	14	3.464490	74	3.473341
35	3.436957	95	3.446382	55	3.455606	15	3.464639	75	3.473487
2736	3.437116	2796	3.446537	2856	3.455758	2916	3.464788	2976	3.473633
37	3.437275	97	3.446692	57	3.455910	17	3.464938	77	3.473779
38	3.437433	98	3.446848	58	3.456062	18	3.465085	78	3.473925
39	3.437592	99	3.447003	59	3.456214	19	3.465234	79	3.474071
40	3.437751	2800	3.447158	60	3.456366	20	3.465383	80	3.474216
2741	3.437909	2801	3.447313	2861	3.456518	2921	3.465532	2981	3.474362
42	3.438067	2	3.447468	62	3.456670	22	3.465680	82	3.474508
43	3.438226	3	3.447623	63	3.456821	23	3.465829	83	3.474653
44	3.438384	4	3.447778	64	3.456973	24	3.465977	84	3.474799
45	3.438542	5	3.447933	65	3.457125	25	3.466126	85	3.474944
2746	3.438701	2806	3.448088	2866	3.457276	2926	3.466274	2986	3.475090
47	3.438859	7	3.448242	67	3.457428	27	3.466423	87	3.475235
48	3.439017	8	3.448397	68	3.457579	28	3.466571	88	3.475381
49	3.439175	9	3.448552	69	3.457731	29	3.466719	89	3.475526
50	3.439333	10	3.448706	70	3.457882	30	3.466868	90	3.475671
2751	3.439491	2811	3.448861	2871	3.458033	2931	3.467016	2991	3.475816
52	3.439648	12	3.449015	72	3.458184	32	3.467164	92	3.475962
53	3.439806	13	3.449170	73	3.458336	33	3.467312	93	3.476107
54	3.439964	14	3.449324	74	3.458487	34	3.467460	94	3.476252
55	3.440122	15	3.449478	75	3.458638	35	3.467608	95	3.476397
2756	3.440279	2816	3.449633	2876	3.458789	2936	3.467756	2996	3.476542
57	3.440437	17	3.449787	77	3.458940	37	3.467904	97	3.476687
58	3.440594	18	3.449941	78	3.459091	38	3.468052	98	3.476832
59	3.440752	19	3.450095	79	3.459242	39	3.468200	99	3.476977
60	3.440909	20	3.450249	80	3.459392	40	3.468347	1000	3.477121



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
3001	3.477266	3061	3.485863	3121	3.494294	3181	3.502564	3241	3.510679
2	3.477411	62	3.486005	22	3.494433	82	3.502700	42	3.510813
3	3.477555	63	3.486147	23	3.494572	83	3.502837	43	3.510947
4	3.477700	64	3.486289	24	3.494711	84	3.502973	44	3.511081
5	3.477844	65	3.486430	25	3.494850	85	3.503109	45	3.511215
3006	3.477989	3066	3.486572	3126	3.494989	3186	3.503246	3246	3.511349
7	3.478133	67	3.486714	27	3.495128	87	3.503382	47	3.511482
8	3.478278	68	3.486855	28	3.495267	88	3.503518	48	3.511616
9	3.478422	69	3.486997	29	3.495406	89	3.503655	49	3.511750
10	3.478566	70	3.487138	30	3.495544	90	3.503791	50	3.511883
3011	3.478711	3071	3.487280	3131	3.495683	3191	3.503927	3251	3.512017
12	3.478855	72	3.487421	32	3.495822	92	3.504063	52	3.512151
13	3.478999	73	3.487563	33	3.495960	93	3.504199	53	3.512284
14	3.479143	74	3.487704	34	3.496099	94	3.504335	54	3.512418
15	3.479287	75	3.487845	35	3.496230	95	3.504471	55	3.512551
3016	3.479431	3076	3.487986	3136	3.496376	3196	3.504607	3256	3.512684
17	3.479575	77	3.488127	37	3.496514	97	3.504743	57	3.512818
18	3.479719	78	3.488269	38	3.496653	98	3.504878	58	3.512951
19	3.479863	79	3.488410	39	3.496791	99	3.505014	59	3.513084
20	3.480007	80	3.488551	40	3.496930	3200	3.505150	60	3.513218
3021	3.480151	3081	3.488692	3141	3.497068	3201	3.505286	3261	3.513351
22	3.480294	82	3.488833	42	3.497206	2	3.505421	62	3.513484
23	3.480438	83	3.488973	43	3.497344	3	3.505557	63	3.513617
24	3.480582	84	3.489114	44	3.497483	4	3.505693	64	3.513750
25	3.480725	85	3.489255	45	3.497621	5	3.505828	65	3.513883
3026	3.480869	3086	3.489396	3146	3.497759	3206	3.505964	3266	3.514016
27	3.481012	87	3.489537	47	3.497897	7	3.506099	67	3.514149
28	3.481156	88	3.489677	48	3.498035	8	3.506234	68	3.514282
29	3.481299	89	3.489818	49	3.498173	9	3.506370	69	3.514415
30	3.481443	90	3.489958	50	3.498311	10	3.506505	70	3.514548
3031	3.481586	3091	3.490099	3151	3.498448	3211	3.506640	3271	3.514680
32	3.481729	92	3.490239	52	3.498586	12	3.506776	72	3.514813
33	3.481872	93	3.490370	53	3.498724	13	3.506911	73	3.514946
34	3.482016	94	3.490520	54	3.498862	14	3.507046	74	3.515079
35	3.482159	95	3.490661	55	3.498999	15	3.507181	75	3.515211
3036	3.482302	3096	3.490801	3156	3.499137	3216	3.507316	3276	3.515344
37	3.482445	97	3.490941	57	3.499275	17	3.507451	77	3.515476
38	3.482588	98	3.491081	58	3.499412	18	3.507586	78	3.515609
39	3.482731	99	3.491222	59	3.499550	19	3.507721	79	3.515741
40	3.482874	3100	3.491362	60	3.499687	20	3.507856	80	3.515874
3041	3.483016	3101	3.491502	3161	3.499824	3221	3.507991	3281	3.516006
42	3.483159	2	3.491642	62	3.499962	22	3.508126	82	3.516139
43	3.483302	3	3.491782	63	3.500099	23	3.508260	83	3.516271
44	3.483445	4	3.491922	64	3.500236	24	3.508395	84	3.516403
45	3.483587	5	3.492062	65	3.500374	25	3.508530	85	3.516535
3046	3.483730	3106	3.492201	3166	3.500511	3226	3.508664	3286	3.516668
47	3.483872	7	3.492341	67	3.500648	27	3.508799	87	3.516800
48	3.484015	8	3.492481	68	3.500785	28	3.508934	88	3.516932
49	3.484157	9	3.492621	69	3.500922	29	3.509068	89	3.517064
50	3.484300	10	3.492760	70	3.501059	30	3.509203	90	3.517196
3051	3.484442	3111	3.492900	3171	3.501196	3231	3.509337	3291	3.517328
52	3.484584	12	3.493040	72	3.501333	32	3.509471	92	3.517460
53	3.484727	13	3.493179	73	3.501470	33	3.509606	93	3.517592
54	3.484869	14	3.493319	74	3.501607	34	3.509740	94	3.517724
55	3.485011	15	3.493458	75	3.501744	35	3.509874	95	3.517855
3056	3.485153	3116	3.493597	3176	3.501880	3236	3.510009	3296	3.517987
57	3.485295	17	3.493737	77	3.502017	37	3.510143	97	3.518119
58	3.485437	18	3.493876	78	3.502154	38	3.510277	98	3.518251
59	3.485579	19	3.494015	79	3.502291	39	3.510411	99	3.518382
60	3.485721	20	3.494155	80	3.502427	40	3.510545	3300	3.518514



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
3301	3.518646	3361	3.526469	3421	3.534153	3481	3.541704	3541	3.549126
2	3.518777	62	3.526598	22	3.534280	82	3.541829	42	3.549249
3	3.518909	63	3.526727	23	3.534407	83	3.541953	43	3.549371
4	3.519040	64	3.526856	24	3.534534	84	3.542078	44	3.549494
5	3.519171	65	3.526985	25	3.534661	85	3.542203	45	3.549616
3306	3.519303	3366	3.527114	3426	3.534787	3486	3.542327	3546	3.549739
7	3.519434	67	3.527243	27	3.534914	87	3.542452	47	3.549861
8	3.519565	68	3.527372	28	3.535041	88	3.542576	48	3.549984
9	3.519697	69	3.527501	29	3.535167	89	3.542701	49	3.550106
10	3.519828	70	3.527630	30	3.535294	90	3.542825	50	3.550228
3311	3.519959	3371	3.527759	3431	3.535421	3491	3.542950	3551	3.550351
12	3.520090	72	3.527888	32	3.535547	92	3.543074	52	3.550473
13	3.520221	73	3.528016	33	3.535674	93	3.543199	53	3.550595
14	3.520353	74	3.528145	34	3.535800	94	3.543323	54	3.550717
15	3.520484	75	3.528274	35	3.535927	95	3.543447	55	3.550840
3316	3.520615	3376	3.528402	3436	3.536053	3496	3.543571	3556	3.550962
17	3.520745	77	3.528531	37	3.536180	97	3.543696	57	3.551084
18	3.520876	78	3.528660	38	3.536306	98	3.543820	58	3.551206
19	3.521007	79	3.528788	39	3.536432	99	3.543944	59	3.551328
20	3.521138	80	3.528917	40	3.536558	3500	3.544068	60	3.551450
3321	3.521269	3381	3.529045	3441	3.536685	3501	3.544192	3561	3.551572
22	3.521400	82	3.529174	42	3.536811	2	3.544316	62	3.551694
23	3.521530	83	3.529302	43	3.536937	3	3.544440	63	3.551816
24	3.521661	84	3.529430	44	3.537063	4	3.544564	64	3.551938
25	3.521792	85	3.529559	45	3.537189	5	3.544688	65	3.552060
3326	3.521922	3386	3.529687	3446	3.537315	3506	3.544812	3566	3.552181
27	3.522053	87	3.529815	47	3.537441	7	3.544936	67	3.552303
28	3.522183	88	3.529943	48	3.537567	8	3.545060	68	3.552425
29	3.522314	89	3.530072	49	3.537693	9	3.545183	69	3.552547
30	3.522444	90	3.530200	50	3.537819	10	3.545307	70	3.552668
3331	3.522575	3391	3.530328	3451	3.537945	3511	3.545431	3571	3.552790
32	3.522705	92	3.530456	52	3.538071	12	3.545555	72	3.552911
33	3.522835	93	3.530584	53	3.538197	13	3.545678	73	3.553033
34	3.522965	94	3.530712	54	3.538322	14	3.545802	74	3.553155
35	3.523096	95	3.530840	55	3.538448	15	3.545925	75	3.553276
3336	3.523226	3396	3.530968	3456	3.538574	3516	3.546049	3576	3.553398
37	3.523356	97	3.531096	57	3.538699	17	3.546172	77	3.553519
38	3.523486	98	3.531223	58	3.538825	18	3.546296	78	3.553640
39	3.523616	99	3.531351	59	3.538951	19	3.546419	79	3.553762
40	3.523746	3400	3.531479	60	3.539076	20	3.546543	80	3.553883
3341	3.523876	3401	3.531607	3461	3.539202	3521	3.546666	3581	3.554004
42	3.524006	2	3.531734	62	3.539327	22	3.546789	82	3.554126
43	3.524136	3	3.531862	63	3.539452	23	3.546913	83	3.554247
44	3.524266	4	3.531990	64	3.539578	24	3.547036	84	3.554368
45	3.524396	5	3.532117	65	3.539703	25	3.547159	85	3.554489
3346	3.524526	3406	3.532245	3466	3.539829	3526	3.547282	3586	3.554610
47	3.524656	7	3.532372	67	3.539954	27	3.547405	87	3.554731
48	3.524785	8	3.532500	68	3.540079	28	3.547529	88	3.554852
49	3.524915	9	3.532627	69	3.540204	29	3.547652	89	3.554973
50	3.525045	10	3.532754	70	3.540329	30	3.547775	90	3.555094
3351	3.525174	3411	3.532882	3471	3.540455	3531	3.547898	3591	3.555215
52	3.525304	12	3.533009	72	3.540580	32	3.548021	92	3.555336
53	3.525434	13	3.533136	73	3.540705	33	3.548144	93	3.555457
54	3.525563	14	3.533264	74	3.540830	34	3.548267	94	3.555578
55	3.525693	15	3.533391	75	3.540955	35	3.548389	95	3.555699
3356	3.525822	3416	3.533518	3476	3.541080	3536	3.548512	3596	3.555820
57	3.525951	17	3.533645	77	3.541205	37	3.548635	97	3.555940
58	3.526081	18	3.533772	78	3.541330	38	3.548758	98	3.556061
59	3.526210	19	3.533899	79	3.541454	39	3.548881	99	3.556182
60	3.526339	20	3.534026	80	3.541579	40	3.549003	3600	3.556303



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
3601	3.556423	3661	3.563600	3721	3.570660	3781	3.577607	3841	3.584444
2	3.556544	62	3.563718	22	3.570776	82	3.577721	42	3.584557
3	3.556664	63	3.563837	23	3.570893	83	3.577836	43	3.584670
4	3.556785	64	3.563955	24	3.571010	84	3.577951	44	3.584783
5	3.556905	65	3.564074	25	3.571126	85	3.578066	45	3.584896
3606	3.557026	3666	3.564192	3726	3.571243	3786	3.578181	3846	3.585009
7	3.557146	67	3.564311	27	3.571359	87	3.578295	47	3.585122
8	3.557267	68	3.564429	28	3.571476	88	3.578410	48	3.585235
9	3.557387	69	3.564548	29	3.571592	89	3.578525	49	3.585348
10	3.557507	70	3.564666	30	3.571709	90	3.578639	50	3.585461
3611	3.557627	3671	3.564784	3731	3.571825	3791	3.578754	3851	3.585574
12	3.557748	72	3.564903	32	3.571942	92	3.578868	52	3.585686
13	3.557868	73	3.565021	33	3.572058	93	3.578983	53	3.585799
14	3.557988	74	3.565139	34	3.572174	94	3.579097	54	3.585912
15	3.558108	75	3.565257	35	3.572291	95	3.579212	55	3.586024
3616	3.558228	3676	3.565376	3736	3.572407	3796	3.579326	3856	3.586137
17	3.558349	77	3.565494	37	3.572523	97	3.579441	57	3.586250
18	3.558469	78	3.565612	38	3.572639	98	3.579555	58	3.586362
19	3.558589	79	3.565730	39	3.572755	99	3.579669	59	3.586475
20	3.558709	80	3.565848	40	3.572872	3800	3.579784	60	3.586587
3621	3.558829	3681	3.565966	3741	3.572988	3801	3.579898	3861	3.586700
22	3.558948	82	3.566084	42	3.573104	2	3.580012	62	3.586812
23	3.559068	83	3.566202	43	3.573220	3	3.580126	63	3.586925
24	3.559188	84	3.566320	44	3.573336	4	3.580240	64	3.587037
25	3.559308	85	3.566437	45	3.573452	5	3.580355	65	3.587149
3626	3.559428	3686	3.566555	3746	3.573568	3806	3.580469	3866	3.587262
27	3.559548	87	3.566673	47	3.573684	7	3.580583	67	3.587374
28	3.559667	88	3.566791	48	3.573800	8	3.580697	68	3.587486
29	3.559787	89	3.566909	49	3.573915	9	3.580811	69	3.587599
30	3.559907	90	3.567026	50	3.574031	10	3.580925	70	3.587711
3631	3.560026	3691	3.567144	3751	3.574147	3811	3.581039	3871	3.587823
32	3.560146	92	3.567262	52	3.574263	12	3.581153	72	3.587935
33	3.560265	93	3.567379	53	3.574379	13	3.581267	73	3.588047
34	3.560385	94	3.567497	54	3.574494	14	3.581381	74	3.588160
35	3.560504	95	3.567614	55	3.574610	15	3.581495	75	3.588272
3636	3.560624	3696	3.567732	3756	3.574726	3816	3.581608	3876	3.588384
37	3.560743	97	3.567849	57	3.574841	17	3.581722	77	3.588496
38	3.560863	98	3.567967	58	3.574957	18	3.581836	78	3.588608
39	3.560982	99	3.568084	59	3.575072	19	3.581950	79	3.588720
40	3.561101	3700	3.568202	60	3.575188	20	3.582063	80	3.588832
3641	3.561221	3701	3.568319	3761	3.575303	3821	3.582177	3881	3.588944
42	3.561340	2	3.568436	62	3.575419	22	3.582291	82	3.589056
43	3.561459	3	3.568554	63	3.575534	23	3.582404	83	3.589167
44	3.561578	4	3.568671	64	3.575650	24	3.582518	84	3.589279
45	3.561698	5	3.568788	65	3.575765	25	3.582631	85	3.589391
3646	3.561817	3706	3.568905	3766	3.575880	3826	3.582745	3886	3.589503
47	3.561936	7	3.569023	67	3.575996	27	3.582858	87	3.589615
48	3.562055	8	3.569140	68	3.576111	28	3.582972	88	3.589726
49	3.562174	9	3.569257	69	3.576226	29	3.583085	89	3.589838
50	3.562293	10	3.569374	70	3.576341	30	3.583199	90	3.589950
3651	3.562412	3711	3.569491	3771	3.576457	3831	3.583312	3891	3.590061
52	3.562531	12	3.569608	72	3.576572	32	3.583426	92	3.590173
53	3.562650	13	3.569725	73	3.576687	33	3.583539	93	3.590284
54	3.562769	14	3.569842	74	3.576802	34	3.583652	94	3.590396
55	3.562887	15	3.569959	75	3.576917	35	3.583765	95	3.590507
3656	3.563006	3716	3.570076	3776	3.577032	3836	3.583879	3896	3.590619
57	3.563125	17	3.570193	77	3.577147	37	3.583992	97	3.590730
58	3.563244	18	3.570309	78	3.577262	38	3.584105	98	3.590842
59	3.563362	19	3.570426	79	3.577377	39	3.584218	99	3.590953
60	3.563481	20	3.570543	80	3.577492	40	3.584331	3900	3.591065



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
3901	3.591176	3961	3.597805	4021	3.604334	4081	3.610767	4141	3.617105
2	3.591287	62	3.597914	22	3.604442	82	3.610873	42	3.617210
3	3.591399	63	3.598024	23	3.604550	83	3.610979	43	3.617315
4	3.591510	64	3.598134	24	3.604658	84	3.611086	44	3.617420
5	3.591621	65	3.598243	25	3.604766	85	3.611192	45	3.617525
3906	3.591732	3966	3.598353	4026	3.604874	4086	3.611298	4146	3.617629
7	3.591843	67	3.598462	27	3.604982	87	3.611405	47	3.617734
8	3.591955	68	3.598572	28	3.605089	88	3.611511	48	3.617839
9	3.592066	69	3.598681	29	3.605197	89	3.611617	49	3.617943
10	3.592177	70	3.598791	30	3.605305	90	3.611723	50	3.618048
3911	3.592288	3971	3.598900	4031	3.605413	4091	3.611829	4151	3.618153
12	3.592399	72	3.599009	32	3.605521	92	3.611936	52	3.618257
13	3.592510	73	3.599119	33	3.605628	93	3.612042	53	3.618362
14	3.592621	74	3.599228	34	3.605736	94	3.612148	54	3.618466
15	3.592732	75	3.599337	35	3.605844	95	3.612254	55	3.618571
3916	3.592843	3976	3.599446	4036	3.605951	4096	3.612360	4156	3.618676
17	3.592954	77	3.599556	37	3.606059	97	3.612466	57	3.618780
18	3.593064	78	3.599665	38	3.606166	98	3.612572	58	3.618884
19	3.593175	79	3.599774	39	3.606274	99	3.612678	59	3.618989
20	3.593286	80	3.599883	40	3.606381	4100	3.612784	60	3.619093
3921	3.593397	3981	3.599992	4041	3.606489	4101	3.612890	4161	3.619198
22	3.593508	82	3.600101	42	3.606596	2	3.612996	62	3.619302
23	3.593618	83	3.600210	43	3.606704	3	3.613102	63	3.619406
24	3.593729	84	3.600319	44	3.606811	4	3.613207	64	3.619511
25	3.593840	85	3.600428	45	3.606919	5	3.613313	65	3.619615
3926	3.593950	3986	3.600537	4046	3.607026	4106	3.613419	4166	3.619719
27	3.594061	87	3.600646	47	3.607133	7	3.613525	67	3.619824
28	3.594171	88	3.600755	48	3.607241	8	3.613630	68	3.619928
29	3.594282	89	3.600864	49	3.607348	9	3.613736	69	3.620032
30	3.594393	90	3.600973	50	3.607455	10	3.613842	70	3.620136
3931	3.594503	3991	3.601082	4051	3.607562	4111	3.613947	4171	3.620240
32	3.594614	92	3.601191	52	3.607669	12	3.614053	72	3.620344
33	3.594724	93	3.601299	53	3.607777	13	3.614159	73	3.620448
34	3.594834	94	3.601408	54	3.607884	14	3.614264	74	3.620552
35	3.594945	95	3.601517	55	3.607991	15	3.614370	75	3.620656
3936	3.595055	3996	3.601625	4056	3.608098	4116	3.614475	4176	3.620760
37	3.595165	97	3.601734	57	3.608205	17	3.614581	77	3.620864
38	3.595276	98	3.601843	58	3.608312	18	3.614686	78	3.620968
39	3.595386	99	3.601951	59	3.608419	19	3.614792	79	3.621072
40	3.595496	4000	3.602060	60	3.608526	20	3.614897	80	3.621176
3941	3.595606	4001	3.602169	4061	3.608633	4121	3.615003	4181	3.621280
42	3.595717	2	3.602277	62	3.608740	22	3.615108	82	3.621384
43	3.595827	3	3.602386	63	3.608847	23	3.615213	83	3.621488
44	3.595937	4	3.602494	64	3.608954	24	3.615319	84	3.621592
45	3.596047	5	3.602603	65	3.609061	25	3.615424	85	3.621695
3946	3.596157	4006	3.602711	4066	3.609167	4126	3.615529	4186	3.621799
47	3.596267	7	3.602819	67	3.609274	27	3.615634	87	3.621903
48	3.596377	8	3.602928	68	3.609381	28	3.615740	88	3.622007
49	3.596487	9	3.603036	69	3.609488	29	3.615845	89	3.622110
50	3.596597	10	3.603144	70	3.609594	30	3.615950	90	3.622214
3951	3.596707	4011	3.603253	4071	3.609701	4131	3.616055	4191	3.622318
52	3.596817	12	3.603361	72	3.609808	32	3.616160	92	3.622421
53	3.596927	13	3.603469	73	3.609914	33	3.616265	93	3.622525
54	3.597037	14	3.603577	74	3.610021	34	3.616370	94	3.622628
55	3.597146	15	3.603686	75	3.610128	35	3.616476	95	3.622732
3956	3.597256	4016	3.603794	4076	3.610234	4136	3.616581	4196	3.622835
57	3.597366	17	3.603902	77	3.610341	37	3.616686	97	3.622939
58	3.597476	18	3.604010	78	3.610447	38	3.616790	98	3.623042
59	3.597586	19	3.604118	79	3.610554	39	3.616895	99	3.623146
60	3.597695	20	3.604226	80	3.610660	40	3.617000	4200	3.623249



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
4201	3.623353	4261	3.629512	4321	3.635584	4381	3.641573	4441	3.647481
2	3.623456	62	3.629613	22	3.635685	82	3.641672	42	3.647579
3	3.623559	63	3.629715	23	3.635786	83	3.641771	43	3.647676
4	3.623663	64	3.629817	24	3.635886	84	3.641871	44	3.647774
5	3.623766	65	3.629919	25	3.635986	85	3.641970	45	3.647872
4206	3.623869	4266	3.630021	4326	3.636087	4386	3.642069	4446	3.647969
7	3.623973	67	3.630123	27	3.636187	87	3.642168	47	3.648067
8	3.624070	68	3.630224	28	3.636287	88	3.642267	48	3.648165
9	3.624179	69	3.630326	29	3.636388	89	3.642366	49	3.648262
10	3.624282	70	3.630428	30	3.636488	90	3.642465	50	3.648360
4211	3.624385	4271	3.630530	4331	3.636588	4391	3.642563	4451	3.648458
12	3.624488	72	3.630631	32	3.636688	92	3.642662	52	3.648555
13	3.624591	73	3.630733	33	3.636789	93	3.642761	53	3.648653
14	3.624695	74	3.630835	34	3.636889	94	3.642860	54	3.648750
15	3.624798	75	3.630936	35	3.636989	95	3.642959	55	3.648848
4216	3.624901	4276	3.631038	4336	3.637089	4396	3.643058	4456	3.648945
17	3.625004	77	3.631139	37	3.637189	97	3.643156	57	3.649043
18	3.625107	78	3.631241	38	3.637290	98	3.643255	58	3.649140
19	3.625210	79	3.631342	39	3.637390	99	3.643354	59	3.649237
20	3.625312	80	3.631444	40	3.637490	4400	3.643453	60	3.649335
4221	3.625415	4281	3.631545	4341	3.637590	4401	3.643551	4461	3.649432
22	3.625518	82	3.631647	42	3.637690	2	3.643650	62	3.649530
23	3.625621	83	3.631748	43	3.637790	3	3.643749	63	3.649627
24	3.625724	84	3.631849	44	3.637890	4	3.643847	64	3.649724
25	3.625827	85	3.631951	45	3.637990	5	3.643946	65	3.649821
4226	3.625929	4286	3.632052	4346	3.638090	4406	3.644044	4466	3.649919
27	3.626032	87	3.632153	47	3.638190	7	3.644143	67	3.650016
28	3.626135	88	3.632255	48	3.638290	8	3.644242	68	3.650113
29	3.626238	89	3.632356	49	3.638389	9	3.644340	69	3.650210
30	3.626340	90	3.632457	50	3.638489	10	3.644439	70	3.650308
4231	3.626443	4291	3.632559	4351	3.638589	4411	3.644537	4471	3.650405
32	3.626546	92	3.632660	52	3.638689	12	3.644636	72	3.650502
33	3.626648	93	3.632761	53	3.638789	13	3.644734	73	3.650599
34	3.626751	94	3.632862	54	3.638888	14	3.644832	74	3.650696
35	3.626853	95	3.632963	55	3.638988	15	3.644931	75	3.650793
4236	3.626956	4296	3.633064	4356	3.639088	4416	3.645029	4476	3.650890
37	3.627058	97	3.633165	57	3.639188	17	3.645127	77	3.650987
38	3.627161	98	3.633266	58	3.639287	18	3.645226	78	3.651084
39	3.627263	99	3.633367	59	3.639387	19	3.645324	79	3.651181
40	3.627366	4300	3.633468	60	3.639486	20	3.645422	80	3.651278
4241	3.627468	4301	3.633569	4361	3.639586	4421	3.645521	4481	3.651375
42	3.627571	2	3.633670	62	3.639686	22	3.645619	82	3.651472
43	3.627673	3	3.633771	63	3.639785	23	3.645717	83	3.651569
44	3.627775	4	3.633872	64	3.639885	24	3.645815	84	3.651666
45	3.627878	5	3.633973	65	3.639984	25	3.645913	85	3.651762
4246	3.627980	4306	3.634074	4366	3.640084	4426	3.646011	4486	3.651859
47	3.628082	7	3.634175	67	3.640183	27	3.646110	87	3.651956
48	3.628185	8	3.634276	68	3.640283	28	3.646208	88	3.652053
49	3.628287	9	3.634376	69	3.640382	29	3.646306	89	3.652150
50	3.628389	10	3.634477	70	3.640481	30	3.646404	90	3.652246
4251	3.628491	4311	3.634578	4371	3.640581	4431	3.646502	4491	3.652343
52	3.628593	12	3.634679	72	3.640680	32	3.646600	92	3.652440
53	3.628695	13	3.634779	73	3.640779	33	3.646698	93	3.652536
54	3.628797	14	3.634880	74	3.640879	34	3.646796	94	3.652633
55	3.628890	15	3.634981	75	3.640978	35	3.646894	95	3.652730
4256	3.629002	4316	3.635081	4376	3.641077	4436	3.646992	4496	3.652826
57	3.629104	17	3.635182	77	3.641177	37	3.647089	97	3.652923
58	3.629206	18	3.635283	78	3.641276	38	3.647187	98	3.653019
59	3.629308	19	3.635383	79	3.641375	39	3.647285	99	3.653116
60	3.629410	20	3.635484	80	3.641474	40	3.647383	4500	3.653213



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
4501	3.653309	4561	3.659060	4621	3.664736	4681	3.670339	4741	3.675870
2	3.6533405	62	3.659155	22	3.664830	82	3.670431	42	3.675962
3	3.6533702	63	3.659250	23	3.664924	83	3.670524	43	3.676053
4	3.6534008	64	3.659346	24	3.665018	84	3.670617	44	3.676145
5	3.6534315	65	3.659441	25	3.665112	85	3.670710	45	3.676236
4506	3.653791	4566	3.659536	4626	3.665206	4686	3.670802	4746	3.676328
7	3.653888	67	3.659631	27	3.665299	87	3.670895	47	3.676419
8	3.653984	68	3.659726	28	3.665393	88	3.670988	48	3.676511
9	3.654080	69	3.659821	29	3.665487	89	3.671080	49	3.676602
10	3.654177	70	3.659916	30	3.665581	90	3.671173	50	3.676694
4511	3.654273	4571	3.660011	4631	3.665675	4691	3.671265	4751	3.676785
12	3.654369	72	3.660106	32	3.665769	92	3.671358	52	3.676876
13	3.654465	73	3.660201	33	3.665862	93	3.671451	53	3.676968
14	3.654562	74	3.660296	34	3.665956	94	3.671543	54	3.677059
15	3.654658	75	3.660391	35	3.666050	95	3.671636	55	3.677151
4516	3.654754	4576	3.660486	4636	3.666143	4696	3.671728	4756	3.677242
17	3.654850	77	3.660581	37	3.666237	97	3.671821	57	3.677333
18	3.654946	78	3.660676	38	3.666331	98	3.671913	58	3.677424
19	3.655042	79	3.660771	39	3.666424	99	3.672005	59	3.677516
20	3.655138	80	3.660865	40	3.666518	4700	3.672098	60	3.677607
4521	3.655233	4581	3.660960	4641	3.666612	4701	3.672190	4761	3.677698
22	3.655331	82	3.661055	42	3.666705	2	3.672283	62	3.677789
23	3.655427	83	3.661150	43	3.666799	3	3.672375	63	3.677881
24	3.655523	84	3.661245	44	3.666892	4	3.672467	64	3.677972
25	3.655619	85	3.661339	45	3.666986	5	3.672560	65	3.678063
4526	3.655715	4586	3.661434	4646	3.667079	4706	3.672652	4766	3.678154
27	3.655810	87	3.661529	47	3.667173	7	3.672744	67	3.678245
28	3.655906	88	3.661623	48	3.667266	8	3.672836	68	3.678336
29	3.656002	89	3.661718	49	3.667360	9	3.672929	69	3.678427
30	3.656098	90	3.661813	50	3.667453	10	3.673021	70	3.678518
4531	3.656194	4591	3.661907	4651	3.667546	4711	3.673113	4771	3.678609
32	3.656290	92	3.662002	52	3.667640	12	3.673205	72	3.678700
33	3.656386	93	3.662096	53	3.667733	13	3.673297	73	3.678791
34	3.656482	94	3.662191	54	3.667826	14	3.673390	74	3.678882
35	3.656577	95	3.662286	55	3.667920	15	3.673482	75	3.678973
4536	3.656673	4596	3.662380	4656	3.668013	4716	3.673574	4776	3.679064
37	3.656769	97	3.662475	57	3.668106	17	3.673666	77	3.679155
38	3.656864	98	3.662569	58	3.668199	18	3.673758	78	3.679246
39	3.656960	99	3.662663	59	3.668293	19	3.673850	79	3.679337
40	3.657056	4600	3.662758	60	3.668386	20	3.673942	80	3.679428
4541	3.657152	4601	3.662852	4661	3.668479	4721	3.674034	4781	3.679519
42	3.657247	2	3.662947	62	3.668572	22	3.674126	82	3.679610
43	3.657343	3	3.663041	63	3.668665	23	3.674218	83	3.679700
44	3.657438	4	3.663135	64	3.668759	24	3.674310	84	3.679791
45	3.657534	5	3.663230	65	3.668852	25	3.674402	85	3.679882
4546	3.657629	4606	3.663324	4666	3.668945	4726	3.674494	4786	3.679973
47	3.657725	7	3.663418	67	3.669038	27	3.674586	87	3.680063
48	3.657820	8	3.663512	68	3.669131	28	3.674677	88	3.680154
49	3.657916	9	3.663607	69	3.669224	29	3.674769	89	3.680245
50	3.658011	10	3.663701	70	3.669317	30	3.674861	90	3.680336
4551	3.658107	4611	3.663795	4671	3.669410	4731	3.674953	4791	3.680426
52	3.658202	12	3.663889	72	3.669503	32	3.675045	92	3.680517
53	3.658298	13	3.663983	73	3.669596	33	3.675137	93	3.680607
54	3.658393	14	3.664078	74	3.669689	34	3.675228	94	3.680698
55	3.658488	15	3.664172	75	3.669782	35	3.675320	95	3.680789
4556	3.658584	4616	3.664266	4676	3.669875	4736	3.675412	4796	3.680879
57	3.658679	17	3.664360	77	3.669967	37	3.675503	97	3.680970
58	3.658774	18	3.664454	78	3.670060	38	3.675595	98	3.681060
59	3.658870	19	3.664548	79	3.670153	39	3.675687	99	3.681151
60	3.658965	20	3.664642	80	3.670246	40	3.675778	4800	3.681241



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
4801	3.681332	4861	3.686726	4921	3.692053	4981	3.697317	5041	3.702517
2	3.681422	62	3.686815	22	3.692142	82	3.697404	42	3.702603
3	3.681513	63	3.686904	23	3.692230	83	3.697491	43	3.702689
4	3.681603	64	3.686994	24	3.692318	84	3.697578	44	3.702775
5	3.681693	65	3.687083	25	3.692406	85	3.697665	45	3.702861
4806	3.681784	4866	3.687172	4926	3.692494	4986	3.697752	5046	3.702947
7	3.681874	67	3.687261	27	3.692583	87	3.697839	47	3.703033
8	3.681964	68	3.687351	28	3.692671	88	3.697926	48	3.703119
9	3.682055	69	3.687440	29	3.692759	89	3.698014	49	3.703205
10	3.682145	70	3.687529	30	3.692847	90	3.698100	50	3.703291
4811	3.682235	4871	3.687618	4931	3.692935	4991	3.698188	5051	3.703377
12	3.682326	72	3.687707	32	3.693023	92	3.698275	52	3.703463
13	3.682416	73	3.687796	33	3.693111	93	3.698362	53	3.703549
14	3.682506	74	3.687886	34	3.693199	94	3.698449	54	3.703635
15	3.682596	75	3.687975	35	3.693287	95	3.698535	55	3.703721
4816	3.682686	4876	3.688064	4936	3.693375	4996	3.698622	5056	3.703807
17	3.682777	77	3.688153	37	3.693463	97	3.698709	57	3.703893
18	3.682867	78	3.688242	38	3.693551	98	3.698796	58	3.703979
19	3.682957	79	3.688331	39	3.693639	99	3.698883	59	3.704065
20	3.683047	80	3.688420	40	3.693727	5000	3.698970	60	3.704151
4821	3.683137	4881	3.688509	4941	3.693815	5001	3.699057	5061	3.704236
22	3.683227	82	3.688598	42	3.693903	2	3.699144	62	3.704322
23	3.683317	83	3.688687	43	3.693991	3	3.699231	63	3.704408
24	3.683407	84	3.688776	44	3.694078	4	3.699317	64	3.704494
25	3.683497	85	3.688865	45	3.694166	5	3.699404	65	3.704579
4826	3.683587	4886	3.688953	4946	3.694254	5006	3.699491	5066	3.704665
27	3.683677	87	3.689042	47	3.694342	7	3.699578	67	3.704751
28	3.683767	88	3.689131	48	3.694430	8	3.699664	68	3.704837
29	3.683857	89	3.689220	49	3.694517	9	3.699751	69	3.704922
30	3.683947	90	3.689309	50	3.694605	10	3.699838	70	3.705008
4831	3.684037	4891	3.689398	4951	3.694693	5011	3.699924	5071	3.705094
32	3.684127	92	3.689486	52	3.694781	12	3.700011	72	3.705179
33	3.684217	93	3.689575	53	3.694868	13	3.700098	73	3.705265
34	3.684307	94	3.689664	54	3.694956	14	3.700184	74	3.705350
35	3.684396	95	3.689753	55	3.695044	15	3.700271	75	3.705436
4836	3.684486	4896	3.689841	4956	3.695131	5016	3.700358	5076	3.705522
37	3.684576	97	3.689930	57	3.695219	17	3.700444	77	3.705607
38	3.684666	98	3.690019	58	3.695307	18	3.700531	78	3.705693
39	3.684756	99	3.690107	59	3.695394	19	3.700617	79	3.705778
40	3.684845	4900	3.690196	60	3.695482	20	3.700704	80	3.705864
4841	3.684935	4901	3.690285	4961	3.695569	5021	3.700790	5081	3.705949
42	3.685025	2	3.690373	62	3.695657	22	3.700877	82	3.706035
43	3.685114	3	3.690462	63	3.695744	23	3.700963	83	3.706120
44	3.685204	4	3.690550	64	3.695832	24	3.701050	84	3.706206
45	3.685294	5	3.690639	65	3.695919	25	3.701136	85	3.706291
4846	3.685383	4906	3.690728	4966	3.696007	5026	3.701222	5086	3.706376
47	3.685473	7	3.690816	67	3.696094	27	3.701309	87	3.706462
48	3.685563	8	3.690905	68	3.696182	28	3.701395	88	3.706547
49	3.685652	9	3.690993	69	3.696269	29	3.701482	89	3.706632
50	3.685742	10	3.691081	70	3.696356	30	3.701568	90	3.706718
4851	3.685831	4911	3.691170	4971	3.696444	5031	3.701654	5091	3.706803
52	3.685921	12	3.691258	72	3.696531	32	3.701741	92	3.706888
53	3.686010	13	3.691347	73	3.696618	33	3.701827	93	3.706974
54	3.686100	14	3.691435	74	3.696706	34	3.701913	94	3.707059
55	3.686189	15	3.691524	75	3.696793	35	3.701999	95	3.707144
4856	3.686279	4916	3.691612	4976	3.696880	5036	3.702086	5096	3.707229
57	3.686368	17	3.691700	77	3.696968	37	3.702172	97	3.707315
58	3.686458	18	3.691789	78	3.697055	38	3.702258	98	3.707400
59	3.686547	19	3.691877	79	3.697142	39	3.702344	99	3.707485
60	3.686636	20	3.691965	80	3.697229	40	3.702431	5100	3.707570



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
5101	3.707655	5161	3.712734	5221	3.717754	5281	3.722716	5341	3.727623
2	3.707740	62	3.712818	22	3.717837	82	3.722708	42	3.727704
3	3.707826	63	3.712902	23	3.717920	83	3.722881	43	3.727785
4	3.707911	64	3.712986	24	3.718003	84	3.722963	44	3.727866
5	3.707996	65	3.713070	25	3.718086	85	3.723045	45	3.727948
5106	3.708081	5166	3.713154	5226	3.718169	5286	3.723127	5346	3.728029
7	3.708166	67	3.713238	27	3.718253	87	3.723209	47	3.728110
8	3.708251	68	3.713323	28	3.718336	88	3.723291	48	3.728191
9	3.708336	69	3.713407	29	3.718419	89	3.723374	49	3.728273
10	3.708421	70	3.713491	30	3.718502	90	3.723456	50	3.728354
5111	3.708506	5171	3.713575	5231	3.718585	5291	3.723538	5351	3.728435
12	3.708591	72	3.713659	32	3.718668	92	3.723620	52	3.728516
13	3.708676	73	3.713742	33	3.718751	93	3.723702	53	3.728597
14	3.708761	74	3.713826	34	3.718834	94	3.723784	54	3.728678
15	3.708846	75	3.713910	35	3.718917	95	3.723866	55	3.728759
5116	3.708931	5176	3.713994	5236	3.719000	5296	3.723948	5356	3.728841
17	3.709015	77	3.714078	37	3.719083	97	3.724030	57	3.728922
18	3.709100	78	3.714162	38	3.719165	98	3.724112	58	3.729003
19	3.709185	79	3.714246	39	3.719248	99	3.724194	59	3.729084
20	3.709270	80	3.714330	40	3.719331	5300	3.724276	60	3.729165
5121	3.709355	5181	3.714414	5241	3.719414	5301	3.724358	5361	3.729246
22	3.709440	82	3.714497	42	3.719497	2	3.724440	62	3.729327
23	3.709524	83	3.714581	43	3.719580	3	3.724522	63	3.729408
24	3.709609	84	3.714665	44	3.719663	4	3.724604	64	3.729489
25	3.709694	85	3.714749	45	3.719745	5	3.724685	65	3.729570
5126	3.709779	5186	3.714833	5246	3.719828	5306	3.724767	5366	3.729651
27	3.709863	87	3.714916	47	3.719911	7	3.724849	67	3.729732
28	3.709948	88	3.715000	48	3.719994	8	3.724931	68	3.729813
29	3.710033	89	3.715084	49	3.720077	9	3.725013	69	3.729893
30	3.710117	90	3.715167	50	3.720159	10	3.725095	70	3.729974
5131	3.710202	5191	3.715251	5251	3.720242	5311	3.725176	5371	3.730055
32	3.710287	92	3.715335	52	3.720325	12	3.725258	72	3.730136
33	3.710371	93	3.715418	53	3.720407	13	3.725340	73	3.730217
34	3.710456	94	3.715502	54	3.720490	14	3.725422	74	3.730298
35	3.710540	95	3.715586	55	3.720573	15	3.725503	75	3.730378
5136	3.710625	5196	3.715669	5256	3.720655	5316	3.725585	5376	3.730459
37	3.710710	97	3.715753	57	3.720738	17	3.725667	77	3.730540
38	3.710794	98	3.715836	58	3.720821	18	3.725748	78	3.730621
39	3.710879	99	3.715920	59	3.720903	19	3.725830	79	3.730701
40	3.710963	5200	3.716003	60	3.720986	20	3.725912	80	3.730782
5141	3.711048	5201	3.716087	5261	3.721068	5321	3.725993	5381	3.730863
42	3.711132	2	3.716170	62	3.721151	22	3.726075	82	3.730944
43	3.711217	3	3.716254	63	3.721233	23	3.726156	83	3.731024
44	3.711301	4	3.716337	64	3.721316	24	3.726238	84	3.731105
45	3.711385	5	3.716421	65	3.721398	25	3.726320	85	3.731186
5146	3.711470	5206	3.716504	5266	3.721481	5326	3.726401	5386	3.731266
47	3.711554	7	3.716588	67	3.721563	27	3.726483	87	3.731347
48	3.711639	8	3.716671	68	3.721646	28	3.726564	88	3.731428
49	3.711723	9	3.716754	69	3.721728	29	3.726646	89	3.731508
50	3.711807	10	3.716838	70	3.721811	30	3.726727	90	3.731589
5151	3.711892	5211	3.716921	5271	3.721893	5331	3.726809	5391	3.731669
52	3.711976	12	3.717004	72	3.721975	32	3.726890	92	3.731750
53	3.712060	13	3.717088	73	3.722058	33	3.726972	93	3.731830
54	3.712144	14	3.717171	74	3.722140	34	3.727053	94	3.731911
55	3.712229	15	3.717254	75	3.722222	35	3.727134	95	3.731991
5156	3.712313	5216	3.717338	5276	3.722305	5336	3.727216	5396	3.732072
57	3.712397	17	3.717421	77	3.722387	37	3.727297	97	3.732152
58	3.712481	18	3.717504	78	3.722469	38	3.727379	98	3.732233
59	3.712566	19	3.717587	79	3.722552	39	3.727460	99	3.732313
60	3.712650	20	3.717671	80	3.722634	40	3.727541	5400	3.732394



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
5401	3.732474	5461	3.737272	5521	3.742018	5581	3.746712	5641	3.751356
2	3.732555	62	3.737352	22	3.742096	82	3.746790	42	3.751433
3	3.732635	63	3.737431	23	3.742175	83	3.746868	43	3.751510
4	3.732715	64	3.737511	24	3.742254	84	3.746945	44	3.751587
5	3.732796	65	3.737590	25	3.742332	85	3.747023	45	3.751664
5406	3.732876	5466	3.737670	5526	3.742411	5586	3.747101	5646	3.751741
7	3.732956	67	3.737749	27	3.742489	87	3.747179	47	3.751818
8	3.733037	68	3.737829	28	3.742568	88	3.747256	48	3.751895
9	3.733117	69	3.737908	29	3.742647	89	3.747334	49	3.751972
10	3.733197	70	3.737987	30	3.742725	90	3.747412	50	3.752048
5411	3.733278	5471	3.738067	5531	3.742804	5591	3.747489	5651	3.752125
12	3.733358	72	3.738146	32	3.742882	92	3.747567	52	3.752202
13	3.733438	73	3.738225	33	3.742961	93	3.747645	53	3.752279
14	3.733518	74	3.738305	34	3.743039	94	3.747722	54	3.752356
15	3.733598	75	3.738384	35	3.743118	95	3.747800	55	3.752433
5416	3.733679	5476	3.738463	5536	3.743196	5596	3.747878	5656	3.752509
17	3.733759	77	3.738543	37	3.743275	97	3.747955	57	3.752586
18	3.733839	78	3.738622	38	3.743353	98	3.748033	58	3.752663
19	3.733919	79	3.738701	39	3.743431	99	3.748110	59	3.752740
20	3.733999	80	3.738781	40	3.743510	5600	3.748188	60	3.752816
5421	3.734079	5481	3.738860	5541	3.743588	5601	3.748266	5661	3.752893
22	3.734160	82	3.738939	42	3.743667	2	3.748343	62	3.752970
23	3.734240	83	3.739018	43	3.743745	3	3.748421	63	3.753047
24	3.734320	84	3.739097	44	3.743823	4	3.748498	64	3.753123
25	3.734400	85	3.739177	45	3.743902	5	3.748576	65	3.753200
5426	3.734480	5486	3.739256	5546	3.743980	5606	3.748653	5666	3.753277
27	3.734560	87	3.739335	47	3.744058	7	3.748731	67	3.753353
28	3.734640	88	3.739414	48	3.744136	8	3.748808	68	3.753430
29	3.734720	89	3.739493	49	3.744215	9	3.748885	69	3.753506
30	3.734800	90	3.739572	50	3.744293	10	3.748963	70	3.753583
5431	3.734880	5491	3.739651	5551	3.744371	5611	3.749040	5671	3.753660
32	3.734960	92	3.739731	52	3.744449	12	3.749118	72	3.753736
33	3.735040	93	3.739810	53	3.744528	13	3.749195	73	3.753813
34	3.735120	94	3.739889	54	3.744606	14	3.749272	74	3.753889
35	3.735200	95	3.739968	55	3.744684	15	3.749350	75	3.753966
5436	3.735279	5496	3.740047	5556	3.744762	5616	3.749427	5676	3.754042
37	3.735359	97	3.740126	57	3.744840	17	3.749504	77	3.754119
38	3.735439	98	3.740205	58	3.744919	18	3.749582	78	3.754195
39	3.735519	99	3.740284	59	3.744997	19	3.749659	79	3.754272
40	3.735599	5500	3.740363	60	3.745075	20	3.749736	80	3.754348
5441	3.735679	5501	3.740442	5561	3.745153	5621	3.749814	5681	3.754425
42	3.735759	2	3.740521	62	3.745231	22	3.749891	82	3.754501
43	3.735838	3	3.740600	63	3.745309	23	3.749968	83	3.754578
44	3.735918	4	3.740678	64	3.745387	24	3.750045	84	3.754654
45	3.735998	5	3.740757	65	3.745465	25	3.750123	85	3.754730
5446	3.736078	5506	3.740836	5566	3.745543	5626	3.750200	5686	3.754807
47	3.736157	7	3.740915	67	3.745621	27	3.750277	87	3.754883
48	3.736237	8	3.740994	68	3.745699	28	3.750354	88	3.754960
49	3.736317	9	3.741073	69	3.745777	29	3.750431	89	3.755036
50	3.736397	10	3.741152	70	3.745855	30	3.750508	90	3.755112
5451	3.736476	5511	3.741230	5571	3.745933	5631	3.750586	5691	3.755189
52	3.736556	12	3.741309	72	3.746011	32	3.750663	92	3.755265
53	3.736635	13	3.741388	73	3.746089	33	3.750740	93	3.755341
54	3.736715	14	3.741467	74	3.746167	34	3.750817	94	3.755417
55	3.736795	15	3.741546	75	3.746245	35	3.750894	95	3.755494
5456	3.736874	5516	3.741624	5576	3.746323	5636	3.750971	5696	3.755570
57	3.736954	17	3.741703	77	3.746401	37	3.751048	97	3.755646
58	3.737034	18	3.741782	78	3.746478	38	3.751125	98	3.755722
59	3.737113	19	3.741860	79	3.746556	39	3.751202	99	3.755799
60	3.737193	20	3.741939	80	3.746634	40	3.751279	5700	3.755875



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
5701	3.755951	5761	3.760498	5821	3.764998	5881	3.769451	5941	3.773860
2	3.756027	62	3.760573	22	3.765072	82	3.769525	42	3.773933
3	3.756103	63	3.760649	23	3.765147	83	3.769599	43	3.774006
4	3.756180	64	3.760724	24	3.765221	84	3.769673	44	3.774079
5	3.756256	65	3.760799	25	3.765296	85	3.769746	45	3.774152
5705	3.756332	5766	3.760875	5826	3.765370	5886	3.769820	5946	3.774225
7	3.756408	67	3.760950	27	3.765445	87	3.769894	47	3.774298
8	3.756484	68	3.761025	28	3.765520	88	3.769968	48	3.774371
9	3.756560	69	3.761101	29	3.765594	89	3.770042	49	3.774444
10	3.756636	70	3.761176	30	3.765669	90	3.770115	50	3.774517
5711	3.756712	5771	3.761251	5831	3.765743	5891	3.770189	5951	3.774590
12	3.756788	72	3.761326	32	3.765818	92	3.770263	52	3.774663
13	3.756864	73	3.761402	33	3.765892	93	3.770336	53	3.774736
14	3.756940	74	3.761477	34	3.765966	94	3.770410	54	3.774809
15	3.757016	75	3.761552	35	3.766041	95	3.770484	55	3.774882
5716	3.757092	5776	3.761627	5836	3.766115	5896	3.770557	5956	3.774955
17	3.757168	77	3.761702	37	3.766190	97	3.770631	57	3.775028
18	3.757244	78	3.761778	38	3.766264	98	3.770705	58	3.775100
19	3.757320	79	3.761853	39	3.766338	99	3.770778	59	3.775173
20	3.757396	80	3.761928	40	3.766413	5900	3.770852	60	3.775246
5721	3.757472	5781	3.762003	5841	3.766487	5901	3.770926	5961	3.775319
22	3.757548	82	3.762078	42	3.766562	1	3.770999	62	3.775392
23	3.757624	83	3.762153	43	3.766636	3	3.771073	63	3.775465
24	3.757700	84	3.762228	44	3.766710	4	3.771146	64	3.775538
25	3.757775	85	3.762303	45	3.766785	5	3.771220	65	3.775610
5726	3.757851	5786	3.762378	5846	3.766859	5906	3.771293	5966	3.775683
27	3.757927	87	3.762453	47	3.766933	7	3.771367	67	3.775756
28	3.758003	88	3.762529	48	3.767007	8	3.771440	68	3.775829
29	3.758079	89	3.762604	49	3.767082	9	3.771514	69	3.775902
30	3.758155	90	3.762679	50	3.767156	10	3.771587	70	3.775974
5731	3.758230	5791	3.762754	5851	3.767230	5911	3.771661	5971	3.776047
32	3.758306	92	3.762829	52	3.767304	12	3.771734	72	3.776120
33	3.758382	93	3.762904	53	3.767379	13	3.771808	73	3.776193
34	3.758458	94	3.762978	54	3.767453	14	3.771881	74	3.776265
35	3.758533	95	3.763053	55	3.767527	15	3.771955	75	3.776338
5736	3.758609	5796	3.763128	5856	3.767601	5916	3.772028	5976	3.776411
37	3.758685	97	3.763203	57	3.767675	17	3.772102	77	3.776483
38	3.758761	98	3.763278	58	3.767749	18	3.772175	78	3.776556
39	3.758836	99	3.763353	59	3.767823	19	3.772248	79	3.776629
40	3.758912	5800	3.763428	60	3.767898	20	3.772322	80	3.776701
5741	3.758988	5801	3.763503	5861	3.767972	5921	3.772395	5981	3.776774
42	3.759063	2	3.763578	62	3.768046	22	3.772468	82	3.776846
43	3.759139	3	3.763653	63	3.768120	23	3.772542	83	3.776919
44	3.759214	4	3.763727	64	3.768194	24	3.772615	84	3.776992
45	3.759290	5	3.763802	65	3.768268	25	3.772688	85	3.777064
5746	3.759366	5806	3.763877	5866	3.768342	5926	3.772762	5986	3.777137
47	3.759441	7	3.763952	67	3.768416	27	3.772835	87	3.777209
48	3.759517	8	3.764027	68	3.768490	28	3.772908	88	3.777282
49	3.759592	9	3.764101	69	3.768564	29	3.772981	89	3.777354
50	3.759668	10	3.764176	70	3.768638	30	3.773055	90	3.777427
5751	3.759743	5811	3.764251	5871	3.768712	5931	3.773128	5991	3.777499
52	3.759819	12	3.764326	72	3.768786	32	3.773201	92	3.777572
53	3.759894	13	3.764400	73	3.768860	33	3.773274	93	3.777644
54	3.759970	14	3.764475	74	3.768934	34	3.773348	94	3.777717
55	3.760045	15	3.764550	75	3.769008	35	3.773421	95	3.777789
5756	3.760121	5816	3.764624	5876	3.769082	5936	3.773494	5996	3.777862
57	3.760196	17	3.764699	77	3.769156	37	3.773567	97	3.777934
58	3.760272	18	3.764774	78	3.769230	38	3.773640	98	3.778006
59	3.760347	19	3.764848	79	3.769305	39	3.773713	99	3.778079
60	3.760422	20	3.764923	80	3.769377	40	3.773786	6000	3.778151



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
6001	3.778224	6061	3.782544	6121	3.786822	6181	3.791059	6241	3.795254
2	3.778236	62	3.782616	22	3.786893	82	3.791129	42	3.795324
3	3.778368	63	3.782688	23	3.786964	83	3.791199	43	3.795393
4	3.778441	64	3.782759	24	3.787035	84	3.791269	44	3.795463
5	3.778513	65	3.782831	25	3.787106	85	3.791340	45	3.795532
6006	3.778585	6066	3.782902	6126	3.787177	6186	3.791410	6246	3.795602
7	3.778658	67	3.782974	27	3.787248	87	3.791480	47	3.795672
8	3.778730	68	3.783046	28	3.787319	88	3.791550	48	3.795741
9	3.778802	69	3.783117	29	3.787390	89	3.791620	49	3.795811
10	3.778874	70	3.783189	30	3.787460	90	3.791691	50	3.795880
6011	3.778947	6071	3.783260	6131	3.787531	6191	3.791761	6251	3.795949
12	3.779019	72	3.783332	32	3.787602	92	3.791831	52	3.796019
13	3.779091	73	3.783403	33	3.787673	93	3.791901	53	3.796088
14	3.779163	74	3.783475	34	3.787744	94	3.791971	54	3.796158
15	3.779236	75	3.783546	35	3.787815	95	3.792041	55	3.796227
6016	3.779308	6076	3.783618	6136	3.787885	6196	3.792111	6256	3.796297
17	3.779380	77	3.783689	37	3.787956	97	3.792181	57	3.796366
18	3.779452	78	3.783761	38	3.788027	98	3.792252	58	3.796436
19	3.779524	79	3.783832	39	3.788098	99	3.792322	59	3.796505
20	3.779596	80	3.783904	40	3.788168	6200	3.792392	60	3.796574
6021	3.779669	6081	3.783975	6141	3.788239	6201	3.792462	6261	3.796644
22	3.779741	82	3.784046	42	3.788310	2	3.792532	62	3.796713
23	3.779813	83	3.784118	43	3.788381	3	3.792602	63	3.796782
24	3.779885	84	3.784189	44	3.788451	4	3.792672	64	3.796852
25	3.779957	85	3.784261	45	3.788522	5	3.792742	65	3.796921
6026	3.780029	6086	3.784332	6146	3.788593	6206	3.792812	6266	3.796990
27	3.780101	87	3.784403	47	3.788663	7	3.792882	67	3.797060
28	3.780173	88	3.784475	48	3.788734	8	3.792952	68	3.797129
29	3.780245	89	3.784546	49	3.788804	9	3.793022	69	3.797198
30	3.780317	90	3.784617	50	3.788875	10	3.793092	70	3.797268
6031	3.780389	6091	3.784689	6151	3.788946	6211	3.793162	6271	3.797337
32	3.780461	92	3.784760	52	3.789016	12	3.793231	72	3.797406
33	3.780533	93	3.784831	53	3.789087	13	3.793301	73	3.797475
34	3.780605	94	3.784902	54	3.789157	14	3.793371	74	3.797545
35	3.780677	95	3.784974	55	3.789228	15	3.793441	75	3.797614
6036	3.780749	6096	3.785045	6156	3.789299	6216	3.793511	6276	3.797683
37	3.780821	97	3.785116	57	3.789369	17	3.793581	77	3.797752
38	3.780893	98	3.785187	58	3.789440	18	3.793651	78	3.797821
39	3.780965	99	3.785259	59	3.789510	19	3.793721	79	3.797890
40	3.781037	6100	3.785330	60	3.789581	20	3.793790	80	3.797960
6041	3.781109	6101	3.785401	6161	3.789651	6221	3.793860	6281	3.798029
42	3.781181	2	3.785472	62	3.789722	22	3.793930	82	3.798098
43	3.781253	3	3.785543	63	3.789792	23	3.794000	83	3.798167
44	3.781324	4	3.785615	64	3.789863	24	3.794070	84	3.798236
45	3.781396	5	3.785686	65	3.789933	25	3.794139	85	3.798305
6046	3.781468	6106	3.785757	6166	3.790004	6226	3.794209	6286	3.798374
47	3.781540	7	3.785828	67	3.790074	27	3.794279	87	3.798443
48	3.781612	8	3.785899	68	3.790144	28	3.794349	88	3.798513
49	3.781684	9	3.785970	69	3.790215	29	3.794418	89	3.798582
50	3.781755	10	3.786041	70	3.790285	30	3.794488	90	3.798651
6051	3.781827	6111	3.786112	6171	3.790355	6231	3.794558	6291	3.798720
52	3.781899	12	3.786183	72	3.790426	32	3.794627	92	3.798789
53	3.781971	13	3.786254	73	3.790496	33	3.794697	93	3.798858
54	3.782042	14	3.786325	74	3.790567	34	3.794767	94	3.798927
55	3.782114	15	3.786396	75	3.790637	35	3.794836	95	3.798996
6056	3.782186	6116	3.786467	6176	3.790707	6236	3.794906	6296	3.799065
57	3.782258	17	3.786538	77	3.790778	37	3.794976	97	3.799134
58	3.782329	18	3.786609	78	3.790848	38	3.795045	98	3.799203
59	3.782401	19	3.786680	79	3.790918	39	3.795115	99	3.799272
60	3.782473	20	3.786751	80	3.790988	6240	3.795185	6300	3.799341



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
6301	3.799409	6361	3.803525	6421	3.807603	6481	3.811642	6541	3.815644
2	3.799478	62	3.803594	22	3.807670	82	3.811709	42	3.815711
3	3.799547	63	3.803662	23	3.807738	83	3.811776	43	3.815777
4	3.799616	64	3.803730	24	3.807806	84	3.811843	44	3.815843
5	3.799685	65	3.803798	25	3.807873	85	3.811910	45	3.815910
6306	3.799754	6366	3.803867	6426	3.807941	6486	3.811977	6546	3.815976
7	3.799823	67	3.803935	27	3.808008	87	3.812044	47	3.816042
8	3.799892	68	3.804003	28	3.808076	88	3.812111	48	3.816109
9	3.799961	69	3.804071	29	3.808143	89	3.812178	49	3.816175
10	3.800029	70	3.804139	30	3.808211	90	3.812245	50	3.816241
6311	3.800098	6371	3.804208	6431	3.808279	6491	3.812312	6551	3.816308
12	3.800167	72	3.804276	32	3.808346	92	3.812379	52	3.816374
13	3.800236	73	3.804344	33	3.808414	93	3.812445	53	3.816440
14	3.800305	74	3.804412	34	3.808481	94	3.812512	54	3.816506
15	3.800373	75	3.804480	35	3.808549	95	3.812579	55	3.816573
6316	3.800442	6376	3.804548	6436	3.808616	6496	3.812646	6556	3.816639
17	3.800511	77	3.804616	37	3.808684	97	3.812713	57	3.816705
18	3.800580	78	3.804685	38	3.808751	98	3.812780	58	3.816771
19	3.800648	79	3.804753	39	3.808818	99	3.812847	59	3.816838
20	3.800717	80	3.804821	40	3.808886	6500	3.812913	60	3.816904
6321	3.800786	6381	3.804889	6441	3.808953	6501	3.812980	6561	3.816970
22	3.800854	82	3.804957	42	3.809021	2	3.813047	62	3.817036
23	3.800923	83	3.805025	43	3.809088	3	3.813114	63	3.817102
24	3.800992	84	3.805093	44	3.809156	4	3.813181	64	3.817169
25	3.801061	85	3.805161	45	3.809223	5	3.813247	65	3.817235
6326	3.801129	6386	3.805229	6446	3.809290	6506	3.813314	6566	3.817301
27	3.801198	87	3.805297	47	3.809358	7	3.813381	67	3.817367
28	3.801266	88	3.805365	48	3.809425	8	3.813448	68	3.817433
29	3.801335	89	3.805433	49	3.809492	9	3.813514	69	3.817499
30	3.801404	90	3.805501	50	3.809560	10	3.813581	70	3.817565
6331	3.801472	6391	3.805569	6451	3.809627	6511	3.813648	6571	3.817631
32	3.801541	92	3.805637	52	3.809694	12	3.813714	72	3.817698
33	3.801609	93	3.805705	53	3.809762	13	3.813781	73	3.817764
34	3.801678	94	3.805773	54	3.809829	14	3.813848	74	3.817830
35	3.801747	95	3.805841	55	3.809896	15	3.813914	75	3.817896
6336	3.801815	6396	3.805908	6456	3.809964	6516	3.813981	6576	3.817962
37	3.801884	97	3.805976	57	3.810031	17	3.814048	77	3.818028
38	3.801952	98	3.806044	58	3.810098	18	3.814114	78	3.818094
39	3.802021	99	3.806112	59	3.810165	19	3.814181	79	3.818160
40	3.802089	6400	3.806180	60	3.810233	20	3.814248	80	3.818226
6341	3.802158	6401	3.806248	6461	3.810300	6521	3.814314	6581	3.818292
42	3.802226	2	3.806316	62	3.810367	22	3.814381	82	3.818358
43	3.802295	3	3.806384	63	3.810434	23	3.814448	83	3.818424
44	3.802363	4	3.806451	64	3.810501	24	3.814514	84	3.818490
45	3.802432	5	3.806519	65	3.810569	25	3.814581	85	3.818556
6346	3.802500	6406	3.806587	6466	3.810636	6526	3.814647	6586	3.818622
47	3.802568	7	3.806655	67	3.810703	27	3.814714	87	3.818688
48	3.802637	8	3.806723	68	3.810770	28	3.814780	88	3.818754
49	3.802705	9	3.806790	69	3.810837	29	3.814847	89	3.818820
50	3.802774	10	3.806858	70	3.810904	30	3.814913	90	3.818885
6351	3.802842	6411	3.806926	6471	3.810971	6531	3.814980	6591	3.818951
52	3.802910	12	3.806994	72	3.811039	32	3.815046	92	3.819017
53	3.802979	13	3.807061	73	3.811106	33	3.815113	93	3.819083
54	3.803047	14	3.807129	74	3.811173	34	3.815179	94	3.819149
55	3.803116	15	3.807197	75	3.811240	35	3.815246	95	3.819215
6356	3.803184	6416	3.807264	6476	3.811307	6536	3.815312	6596	3.819281
57	3.803252	17	3.807332	77	3.811374	37	3.815378	97	3.819346
58	3.803321	18	3.807400	78	3.811441	38	3.815445	98	3.819412
59	3.803389	19	3.807467	79	3.811508	39	3.815511	99	3.819478
60	3.803457	20	3.807535	80	3.811575	40	3.815578	6600	3.819544



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
6601	3.819610	6661	3.823539	6721	3.827434	6781	3.831294	6841	3.835120
2	3.819676	62	3.823605	22	3.827499	82	3.831358	42	3.835183
3	3.819741	63	3.823670	23	3.827563	83	3.831422	43	3.835247
4	3.819807	64	3.823735	24	3.827628	84	3.831486	44	3.835310
5	3.819873	65	3.823800	25	3.827692	85	3.831550	45	3.835373
6606	3.819939	6666	3.823865	6726	3.827757	6786	3.831614	6846	3.835437
7	3.820004	67	3.823930	27	3.827821	87	3.831678	47	3.835500
8	3.820070	68	3.823996	28	3.827886	88	3.831742	48	3.835564
9	3.820136	69	3.824061	29	3.827951	89	3.831806	49	3.835627
10	3.820201	70	3.824126	30	3.828015	90	3.831870	50	3.835691
6611	3.820267	6671	3.824191	6731	3.828080	6791	3.831934	6851	3.835754
12	3.820333	72	3.824256	32	3.828144	92	3.831998	52	3.835817
13	3.820399	73	3.824321	33	3.828209	93	3.832062	53	3.835881
14	3.820464	74	3.824386	34	3.828273	94	3.832126	54	3.835944
15	3.820530	75	3.824451	35	3.828338	95	3.832189	55	3.836007
6616	3.820595	6676	3.824516	6736	3.828402	6796	3.832253	6856	3.836071
17	3.820661	77	3.824581	37	3.828467	97	3.832317	57	3.836134
18	3.820727	78	3.824646	38	3.828531	98	3.832381	58	3.836197
19	3.820792	79	3.824711	39	3.828595	99	3.832445	59	3.836261
20	3.820858	80	3.824776	40	3.828660	6800	3.832509	60	3.836324
6621	3.820924	6681	3.824841	6741	3.828724	6801	3.832573	6861	3.836387
22	3.820989	82	3.824906	42	3.828789	2	3.832637	62	3.836451
23	3.821055	83	3.824971	43	3.828853	3	3.832700	63	3.836514
24	3.821120	84	3.825036	44	3.828918	4	3.832764	64	3.836577
25	3.821186	85	3.825101	45	3.828982	5	3.832828	65	3.836641
6626	3.821251	6686	3.825166	6746	3.829046	6806	3.832892	6866	3.836704
27	3.821317	87	3.825231	47	3.829111	7	3.832956	67	3.836767
28	3.821382	88	3.825296	48	3.829175	8	3.833020	68	3.836830
29	3.821448	89	3.825361	49	3.829239	9	3.833083	69	3.836894
30	3.821514	90	3.825426	50	3.829304	10	3.833147	70	3.836957
6631	3.821579	6691	3.825491	6751	3.829368	6811	3.833211	6871	3.837020
32	3.821644	92	3.825556	52	3.829432	12	3.833275	72	3.837083
33	3.821710	93	3.825621	53	3.829497	13	3.833338	73	3.837146
34	3.821775	94	3.825686	54	3.829561	14	3.833402	74	3.837210
35	3.821841	95	3.825751	55	3.829625	15	3.833466	75	3.837273
6636	3.821906	6696	3.825815	6756	3.829690	6816	3.833530	6876	3.837336
37	3.821972	97	3.825880	57	3.829754	17	3.833593	77	3.837399
38	3.822037	98	3.825945	58	3.829818	18	3.833657	78	3.837462
39	3.822103	99	3.826010	59	3.829882	19	3.833721	79	3.837525
40	3.822168	6700	3.826075	60	3.829947	20	3.833784	80	3.837588
6641	3.822233	6701	3.826140	6761	3.830011	6821	3.833848	6881	3.837652
42	3.822299	2	3.826204	62	3.830075	22	3.833912	82	3.837715
43	3.822364	3	3.826269	63	3.830139	23	3.833975	83	3.837778
44	3.822430	4	3.826334	64	3.830204	24	3.834039	84	3.837841
45	3.822495	5	3.826399	65	3.830268	25	3.834103	85	3.837904
6646	3.822560	6706	3.826464	6766	3.830332	6826	3.834166	6886	3.837967
47	3.822626	7	3.826528	67	3.830396	27	3.834230	87	3.838030
48	3.822691	8	3.826593	68	3.830460	28	3.834294	88	3.838093
49	3.822756	9	3.826658	69	3.830525	29	3.834357	89	3.838156
50	3.822822	10	3.826723	70	3.830589	30	3.834421	90	3.838219
6651	3.822887	6711	3.826787	6771	3.830653	6831	3.834484	6891	3.838282
52	3.822952	12	3.826852	72	3.830717	32	3.834548	92	3.838345
53	3.823018	13	3.826917	73	3.830781	33	3.834611	93	3.838408
54	3.823083	14	3.826981	74	3.830845	34	3.834675	94	3.838471
55	3.823148	15	3.827046	75	3.830909	35	3.834739	95	3.838534
6656	3.823213	6716	3.827111	6776	3.830973	6836	3.834802	6896	3.838597
57	3.823279	17	3.827175	77	3.831037	37	3.834866	97	3.838660
58	3.823344	18	3.827240	78	3.831102	38	3.834929	98	3.838723
59	3.823409	19	3.827305	79	3.831166	39	3.834993	99	3.838786
60	3.823474	20	3.827369	80	3.831230	40	3.835056	6900	3.838849



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
6901	3.838912	6961	3.842672	7021	3.846399	7081	3.850095	7141	3.853779
2	3.838975	62	3.842734	22	3.846461	82	3.850156	42	3.853820
3	3.839038	63	3.842796	23	3.846523	83	3.850217	43	3.853881
4	3.839101	64	3.842859	24	3.846585	84	3.850279	44	3.853941
5	3.839164	65	3.842921	25	3.846646	85	3.850340	45	3.854002
6906	3.839227	6966	3.842983	7026	3.846708	7086	3.850401	7146	3.854063
7	3.839289	67	3.843046	27	3.846770	87	3.850462	47	3.854124
8	3.839352	68	3.843108	28	3.846832	88	3.850524	48	3.854185
9	3.839415	69	3.843170	29	3.846894	89	3.850585	49	3.854245
10	3.839478	70	3.843233	30	3.846955	90	3.850646	50	3.854306
6911	3.839541	6971	3.843295	7031	3.847017	7091	3.850707	7151	3.854367
12	3.839604	72	3.843357	32	3.847079	92	3.850769	52	3.854428
13	3.839667	73	3.843420	33	3.847141	93	3.850830	53	3.854488
14	3.839729	74	3.843482	34	3.847202	94	3.850891	54	3.854549
15	3.839792	75	3.843544	35	3.847264	95	3.850952	55	3.854610
6916	3.839855	6976	3.843606	7036	3.847326	7096	3.851014	7156	3.854670
17	3.839918	77	3.843669	37	3.847388	97	3.851075	57	3.854731
18	3.839981	78	3.843731	38	3.847449	98	3.851136	58	3.854792
19	3.840043	79	3.843793	39	3.847511	99	3.851197	59	3.854852
20	3.840106	80	3.843855	40	3.847573	7100	3.851258	60	3.854913
6921	3.840169	6981	3.843918	7041	3.847634	7101	3.851320	7161	3.854974
22	3.840232	82	3.843980	42	3.847696	2	3.851381	62	3.855034
23	3.840294	83	3.844042	43	3.847758	3	3.851442	63	3.855095
24	3.840357	84	3.844104	44	3.847819	4	3.851503	64	3.855156
25	3.840420	85	3.844166	45	3.847881	5	3.851564	65	3.855216
6926	3.840482	6986	3.844229	7046	3.847943	7106	3.851625	7166	3.855277
27	3.840545	87	3.844291	47	3.848004	7	3.851686	67	3.855337
28	3.840608	88	3.844353	48	3.848066	8	3.851747	68	3.855398
29	3.840671	89	3.844415	49	3.848128	9	3.851809	69	3.855459
30	3.840733	90	3.844477	50	3.848189	10	3.851870	70	3.855519
6931	3.840796	6991	3.844539	7051	3.848251	7111	3.851931	7171	3.855580
32	3.840859	92	3.844601	52	3.848312	12	3.851992	72	3.855640
33	3.840921	93	3.844664	53	3.848374	13	3.852053	73	3.855701
34	3.840984	94	3.844726	54	3.848435	14	3.852114	74	3.855761
35	3.841046	95	3.844788	55	3.848497	15	3.852175	75	3.855822
6936	3.841109	6996	3.844850	7056	3.848559	7116	3.852236	7176	3.855882
37	3.841172	97	3.844912	57	3.848620	17	3.852297	77	3.855943
38	3.841234	98	3.844974	58	3.848682	18	3.852358	78	3.856003
39	3.841297	99	3.845036	59	3.848743	19	3.852419	79	3.856064
40	3.841359	7000	3.845098	60	3.848805	20	3.852480	80	3.856124
6941	3.841422	7001	3.845160	7061	3.848866	7121	3.852541	7181	3.856185
42	3.841485	2	3.845222	62	3.848928	22	3.852602	82	3.856245
43	3.841547	3	3.845284	63	3.848989	23	3.852663	83	3.856306
44	3.841610	4	3.845346	64	3.849051	24	3.852724	84	3.856366
45	3.841672	5	3.845408	65	3.849112	25	3.852785	85	3.856427
6946	3.841735	7006	3.845470	7066	3.849174	7126	3.852846	7186	3.856487
47	3.841797	7	3.845532	67	3.849235	27	3.852907	87	3.856548
48	3.841860	8	3.845594	68	3.849297	28	3.852968	88	3.856608
49	3.841922	9	3.845656	69	3.849358	29	3.853029	89	3.856668
50	3.841985	10	3.845718	70	3.849419	30	3.853090	90	3.856729
6951	3.842047	7011	3.845780	7071	3.849481	7131	3.853151	7191	3.856789
52	3.842110	12	3.845842	72	3.849542	32	3.853211	92	3.856850
53	3.842172	13	3.845904	73	3.849604	33	3.853272	93	3.856910
54	3.842235	14	3.845966	74	3.849665	34	3.853333	94	3.856970
55	3.842297	15	3.846028	75	3.849726	35	3.853394	95	3.857031
6956	3.842360	7016	3.846090	7076	3.849788	7136	3.853455	7196	3.857091
57	3.842422	17	3.846151	77	3.849849	37	3.853516	97	3.857152
58	3.842484	18	3.846213	78	3.849911	38	3.853576	98	3.857212
59	3.842547	19	3.846275	79	3.849972	39	3.853637	99	3.857272
60	3.842609	20	3.846337	80	3.850033	40	3.853698	7200	3.857332



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
7201	3.857393	7261	3.860996	7321	3.864370	7381	3.868115	7441	3.871631
2	3.857453	62	3.861056	22	3.864430	82	3.868174	42	3.871690
3	3.857513	63	3.861116	23	3.864489	83	3.868233	43	3.871748
4	3.857574	64	3.861176	24	3.864548	84	3.868292	44	3.871806
5	3.857634	65	3.861236	25	3.864608	85	3.868350	45	3.871865
7206	3.857694	7266	3.861295	7326	3.864667	7386	3.868409	7446	3.871923
7	3.857755	67	3.861355	27	3.864726	87	3.868468	47	3.871981
8	3.857815	68	3.861415	28	3.864785	88	3.868527	48	3.872040
9	3.857875	69	3.861475	29	3.864845	89	3.868586	49	3.872098
10	3.857935	70	3.861534	30	3.864904	90	3.868644	50	3.872156
7211	3.857995	7271	3.861594	7331	3.864963	7391	3.868703	7451	3.872215
12	3.858056	72	3.861654	32	3.865022	92	3.868762	52	3.872273
13	3.858116	73	3.861714	33	3.865082	93	3.868821	53	3.872331
14	3.858176	74	3.861773	34	3.865141	94	3.868879	54	3.872389
15	3.858236	75	3.861833	35	3.865200	95	3.868938	55	3.872448
7216	3.858297	7276	3.861893	7336	3.865259	7396	3.868997	7456	3.872506
17	3.858357	77	3.861952	37	3.865319	97	3.869056	57	3.872564
18	3.858417	78	3.862012	38	3.865378	98	3.869114	58	3.872622
19	3.858477	79	3.862072	39	3.865437	99	3.869173	59	3.872681
20	3.858537	80	3.862131	40	3.865496	7400	3.869232	60	3.872739
7221	3.858597	7281	3.862191	7341	3.865555	7401	3.869290	7461	3.872797
22	3.858657	82	3.862251	42	3.865614	2	3.869349	62	3.872855
23	3.858718	83	3.862310	43	3.865674	3	3.869408	63	3.872913
24	3.858778	84	3.862370	44	3.865733	4	3.869466	64	3.872972
25	3.858838	85	3.862430	45	3.865792	5	3.869525	65	3.873030
7226	3.858898	7286	3.862489	7346	3.865851	7406	3.869584	7466	3.873088
17	3.858958	87	3.862549	47	3.865910	7	3.869642	67	3.873146
28	3.859018	88	3.862608	48	3.865969	8	3.869701	68	3.873204
29	3.859078	89	3.862668	49	3.866028	9	3.869760	69	3.873262
30	3.859138	90	3.862728	50	3.866087	10	3.869818	70	3.873321
7231	3.859198	7291	3.862787	7351	3.866146	7411	3.869877	7471	3.873379
32	3.859258	92	3.862847	52	3.866205	12	3.869935	72	3.873437
33	3.859318	93	3.862906	53	3.866265	13	3.869994	73	3.873495
34	3.859379	94	3.862966	54	3.866324	14	3.870053	74	3.873553
35	3.859439	95	3.863025	55	3.866383	15	3.870111	75	3.873611
7236	3.859499	7296	3.863085	7356	3.866442	7416	3.870170	7476	3.873669
37	3.859559	97	3.863144	57	3.866501	17	3.870228	77	3.873727
38	3.859619	98	3.863204	58	3.866560	18	3.870287	78	3.873785
39	3.859679	99	3.863263	59	3.866619	19	3.870345	79	3.873844
40	3.859739	7300	3.863323	60	3.866678	20	3.870404	80	3.873902
7241	3.859799	7301	3.863382	7361	3.866737	7421	3.870462	7481	3.873960
42	3.859859	2	3.863442	62	3.866796	22	3.870521	82	3.874018
43	3.859918	3	3.863501	63	3.866855	23	3.870579	83	3.874076
44	3.859978	4	3.863561	64	3.866914	24	3.870638	84	3.874134
45	3.860038	5	3.863620	65	3.866973	25	3.870696	85	3.874192
7246	3.860098	7306	3.863680	7366	3.867032	7426	3.870755	7486	3.874250
47	3.860158	7	3.863739	67	3.867091	27	3.870813	87	3.874308
48	3.860218	8	3.863799	68	3.867150	28	3.870872	88	3.874366
49	3.860278	9	3.863858	69	3.867209	29	3.870930	89	3.874424
50	3.860338	10	3.863917	70	3.867267	30	3.870989	90	3.874482
7251	3.860398	7311	3.863977	7371	3.867326	7431	3.871047	7491	3.874540
52	3.860458	12	3.864036	72	3.867385	32	3.871106	92	3.874598
53	3.860518	13	3.864096	73	3.867444	33	3.871164	93	3.874656
54	3.860578	14	3.864155	74	3.867503	34	3.871223	94	3.874714
55	3.860637	15	3.864214	75	3.867562	35	3.871281	95	3.874772
7256	3.860697	7316	3.864274	7376	3.867621	7436	3.871339	7496	3.874830
57	3.860757	17	3.864333	77	3.867680	37	3.871398	97	3.874888
58	3.860817	18	3.864392	78	3.867739	38	3.871456	98	3.874946
59	3.860877	19	3.864452	79	3.867798	39	3.871515	99	3.875003
60	3.860937	20	3.864511	80	3.867856	40	3.871573	7500	3.875061



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
7501	3.875119	7561	3.878579	7621	3.882012	7681	3.885418	7741	3.888797
2	3.875177	62	3.878637	22	3.882069	82	3.885474	42	3.888853
3	3.875235	63	3.878694	23	3.882126	83	3.885531	43	3.888909
4	3.875293	64	3.878752	24	3.882183	84	3.885587	44	3.888965
5	3.875351	65	3.878809	25	3.882240	85	3.885644	45	3.889021
7506	3.875409	7566	3.878866	7626	3.882297	7686	3.885700	7746	3.889077
7	3.875466	67	3.878924	27	3.882354	87	3.885757	47	3.889134
8	3.875524	68	3.878981	28	3.882411	88	3.885813	48	3.889190
9	3.875582	69	3.879039	29	3.882468	89	3.885870	49	3.889246
10	3.875640	70	3.879096	30	3.882525	90	3.885926	50	3.889302
7511	3.875698	7571	3.879153	7631	3.882581	7691	3.885983	7751	3.889358
12	3.875756	72	3.879211	32	3.882638	92	3.886039	52	3.889414
13	3.875813	73	3.879268	33	3.882695	93	3.886096	53	3.889470
14	3.875871	74	3.879325	34	3.882752	94	3.886152	54	3.889526
15	3.875929	75	3.879383	35	3.882809	95	3.886209	55	3.889582
7516	3.875987	7576	3.879440	7636	3.882866	7696	3.886265	7756	3.889638
17	3.876045	77	3.879497	37	3.882923	97	3.886321	57	3.889694
18	3.876102	78	3.879555	38	3.882980	98	3.886378	58	3.889750
19	3.876160	79	3.879612	39	3.883037	99	3.886434	59	3.889806
20	3.876218	80	3.879669	40	3.883093	7700	3.886491	60	3.889862
7521	3.876276	7581	3.879726	7641	3.883150	7701	3.886547	7761	3.889918
22	3.876333	82	3.879784	42	3.883207	2	3.886604	62	3.889974
23	3.876391	83	3.879841	43	3.883264	3	3.886660	63	3.890030
24	3.876449	84	3.879898	44	3.883321	4	3.886716	64	3.890086
25	3.876507	85	3.879956	45	3.883377	5	3.886773	65	3.890141
7526	3.876564	7586	3.880013	7646	3.883434	7706	3.886829	7766	3.890197
27	3.876622	87	3.880070	47	3.883491	7	3.886885	67	3.890253
28	3.876680	88	3.880127	48	3.883548	8	3.886942	68	3.890309
29	3.876737	89	3.880185	49	3.883605	9	3.886998	69	3.890365
30	3.876795	90	3.880242	50	3.883661	10	3.887054	70	3.890421
7531	3.876853	7591	3.880299	7651	3.883718	7711	3.887111	7771	3.890477
32	3.876910	92	3.880356	52	3.883775	12	3.887167	72	3.890533
33	3.876968	93	3.880413	53	3.883832	13	3.887223	73	3.890589
34	3.877026	94	3.880471	54	3.883888	14	3.887280	74	3.890645
35	3.877083	95	3.880528	55	3.883945	15	3.887336	75	3.890700
7536	3.877141	7596	3.880585	7656	3.884002	7716	3.887392	7776	3.890756
37	3.877199	97	3.880642	57	3.884059	17	3.887448	77	3.890812
38	3.877256	98	3.880699	58	3.884115	18	3.887505	78	3.890868
39	3.877314	99	3.880756	59	3.884172	19	3.887561	79	3.890924
40	3.877371	7600	3.880814	60	3.884229	20	3.887617	80	3.890980
7541	3.877429	7601	3.880871	7661	3.884285	7721	3.887674	7781	3.891035
42	3.877487	2	3.880928	62	3.884342	22	3.887730	82	3.891091
43	3.877544	3	3.880985	63	3.884399	23	3.887786	83	3.891147
44	3.877602	4	3.881042	64	3.884455	24	3.887842	84	3.891203
45	3.877659	5	3.881099	65	3.884512	25	3.887898	85	3.891259
7546	3.877717	7606	3.881156	7666	3.884569	7726	3.887955	7786	3.891314
47	3.877774	7	3.881213	67	3.884625	27	3.888011	87	3.891370
48	3.877832	8	3.881271	68	3.884682	28	3.888067	88	3.891426
49	3.877889	9	3.881328	69	3.884739	29	3.888123	89	3.891482
50	3.877947	10	3.881385	70	3.884795	30	3.888179	90	3.891537
7551	3.878004	7611	3.881442	7671	3.884852	7731	3.888236	7791	3.891593
52	3.878062	12	3.881499	72	3.884909	32	3.888292	92	3.891649
53	3.878119	13	3.881556	73	3.884965	33	3.888348	93	3.891705
54	3.878177	14	3.881613	74	3.885022	34	3.888404	94	3.891760
55	3.878234	15	3.881670	75	3.885078	35	3.888460	95	3.891816
7556	3.878292	7616	3.881727	7676	3.885135	7736	3.888516	7796	3.891872
57	3.878349	17	3.881784	77	3.885192	37	3.888573	97	3.891928
58	3.878407	18	3.881841	78	3.885248	38	3.888629	98	3.891983
59	3.878464	19	3.881898	79	3.885305	39	3.888685	99	3.892039
60	3.878522	20	3.881955	80	3.885361	40	3.888741	7806	3.892095



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
7801	3.891150	7861	3.895478	7921	3.898780	7981	3.902057	8041	3.905310
2	3.891206	62	3.895533	22	3.898835	82	3.902112	42	3.905364
3	3.891262	63	3.895588	23	3.898890	83	3.902166	43	3.905418
4	3.891317	64	3.895644	24	3.898944	84	3.902221	44	3.905472
5	3.891373	65	3.895699	25	3.898999	85	3.902275	45	3.905526
7806	3.892429	7866	3.895754	7926	3.899054	7986	3.902329	8046	3.905580
7	3.892484	67	3.895809	27	3.899109	87	3.902384	47	3.905634
8	3.892540	68	3.895864	28	3.899164	88	3.902438	48	3.905688
9	3.892595	69	3.895920	29	3.899218	89	3.902492	49	3.905742
10	3.892651	70	3.895975	30	3.899273	90	3.902547	50	3.905796
7811	3.892707	7871	3.896030	7931	3.899328	7991	3.902601	8051	3.905850
12	3.892762	72	3.896085	32	3.899383	92	3.902655	52	3.905904
13	3.892818	73	3.896140	33	3.899437	93	3.902710	53	3.905958
14	3.892873	74	3.896195	34	3.899492	94	3.902764	54	3.906012
15	3.892929	75	3.896251	35	3.899547	95	3.902818	55	3.906066
7816	3.892985	7876	3.896306	7936	3.899602	7996	3.902873	8056	3.906119
17	3.893040	77	3.896361	37	3.899656	97	3.902927	57	3.906173
18	3.893096	78	3.896416	38	3.899711	98	3.902981	58	3.906227
19	3.893151	79	3.896471	39	3.899766	99	3.903036	59	3.906281
20	3.893207	80	3.896526	40	3.899821	8000	3.903090	60	3.906335
7821	3.893262	7881	3.896581	7941	3.899875	8001	3.903144	8061	3.906389
22	3.893318	82	3.896636	42	3.899930	2	3.903199	62	3.906443
23	3.893373	83	3.896692	43	3.899985	3	3.903253	63	3.906497
24	3.893429	84	3.896747	44	3.900039	4	3.903307	64	3.906551
25	3.893484	85	3.896802	45	3.900094	5	3.903361	65	3.906604
7826	3.893540	7886	3.896857	7946	3.900149	8006	3.903416	8066	3.906658
27	3.893595	87	3.896912	47	3.900203	7	3.903470	67	3.906712
28	3.893651	88	3.896967	48	3.900258	8	3.903524	68	3.906766
29	3.893706	89	3.897022	49	3.900312	9	3.903578	69	3.906820
30	3.893762	90	3.897077	50	3.900367	10	3.903633	70	3.906874
7831	3.893817	7891	3.897132	7951	3.900422	8011	3.903687	8071	3.906927
32	3.893873	92	3.897187	52	3.900476	12	3.903741	72	3.906981
33	3.893928	93	3.897242	53	3.900531	13	3.903795	73	3.907035
34	3.893984	94	3.897297	54	3.900586	14	3.903849	74	3.907089
35	3.894039	95	3.897352	55	3.900640	15	3.903904	75	3.907143
7836	3.894094	7896	3.897407	7956	3.900695	8016	3.903958	8076	3.907196
37	3.894150	97	3.897462	57	3.900749	17	3.904012	77	3.907250
38	3.894205	98	3.897517	58	3.900804	18	3.904066	78	3.907304
39	3.894261	99	3.897572	59	3.900859	19	3.904120	79	3.907358
40	3.894316	7900	3.897627	60	3.900913	20	3.904174	80	3.907411
7841	3.894371	7901	3.897682	7961	3.900968	8021	3.904229	8081	3.907465
42	3.894427	2	3.897737	62	3.901022	22	3.904283	82	3.907519
43	3.894482	3	3.897792	63	3.901077	23	3.904337	83	3.907573
44	3.894538	4	3.897847	64	3.901131	24	3.904391	84	3.907626
45	3.894593	5	3.897902	65	3.901186	25	3.904445	85	3.907680
7846	3.894648	7906	3.897957	7966	3.901240	8026	3.904499	8086	3.907734
47	3.894704	7	3.898012	67	3.901295	27	3.904553	87	3.907787
48	3.894759	8	3.898067	68	3.901349	28	3.904607	88	3.907841
49	3.894814	9	3.898122	69	3.901404	29	3.904661	89	3.907895
50	3.894870	10	3.898176	70	3.901458	30	3.904716	90	3.907949
7851	3.894925	7911	3.898231	7971	3.901513	8031	3.904770	8091	3.908002
52	3.894980	12	3.898286	72	3.901567	32	3.904824	92	3.908056
53	3.895036	13	3.898341	73	3.901622	33	3.904878	93	3.908110
54	3.895091	14	3.898396	74	3.901676	34	3.904932	94	3.908163
55	3.895146	15	3.898451	75	3.901731	35	3.904986	95	3.908217
7856	3.895201	7916	3.898506	7976	3.901785	8036	3.905040	8096	3.908270
57	3.895257	17	3.898561	77	3.901840	37	3.905094	97	3.908324
58	3.895312	18	3.898615	78	3.901894	38	3.905148	98	3.908378
59	3.895367	19	3.898670	79	3.901948	39	3.905202	99	3.908431
60	3.895423	20	3.898725	80	3.902003	40	3.905256	8100	3.908485



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
8101	3.908539	8161	3.911743	8221	3.914925	8281	3.918083	8341	3.921218
2	3.908592	62	3.911797	22	3.914977	82	3.918135	42	3.921270
3	3.908646	63	3.911850	23	3.915030	83	3.918188	43	3.921322
4	3.908699	64	3.911903	24	3.915083	84	3.918240	44	3.921374
5	3.908753	65	3.911956	25	3.915136	85	3.918293	45	3.921426
8106	3.908807	8166	3.912009	8226	3.915189	8286	3.918345	8346	3.921478
7	3.908860	67	3.912063	27	3.915241	87	3.918397	47	3.921530
8	3.908914	68	3.912116	28	3.915294	88	3.918450	48	3.921582
9	3.908967	69	3.912169	29	3.915347	89	3.918502	49	3.921634
10	3.909021	70	3.912222	30	3.915400	90	3.918555	50	3.921686
8111	3.909074	8171	3.912275	8231	3.915453	8291	3.918607	8351	3.921738
12	3.909128	72	3.912328	32	3.915505	92	3.918659	52	3.921790
13	3.909181	73	3.912381	33	3.915558	93	3.918712	53	3.921842
14	3.909235	74	3.912435	34	3.915611	94	3.918764	54	3.921894
15	3.909289	75	3.912488	35	3.915664	95	3.918816	55	3.921946
8116	3.909342	8176	3.912541	8236	3.915716	8296	3.918869	8356	3.921998
17	3.909396	77	3.912594	37	3.915769	97	3.918921	57	3.922050
18	3.909449	78	3.912647	38	3.915822	98	3.918973	58	3.922102
19	3.909503	79	3.912700	39	3.915874	99	3.919026	59	3.922154
20	3.909556	80	3.912753	40	3.915927	8300	3.919078	60	3.922206
8121	3.909610	8181	3.912806	8241	3.915980	8301	3.919130	8361	3.922258
22	3.909663	82	3.912859	42	3.916033	2	3.919183	62	3.922310
23	3.909716	83	3.912913	43	3.916085	3	3.919235	63	3.922362
24	3.909770	84	3.912966	44	3.916138	4	3.919287	64	3.922414
25	3.909823	85	3.913019	45	3.916191	5	3.919340	65	3.922466
8126	3.909877	8186	3.913072	8246	3.916243	8306	3.919392	8366	3.922518
27	3.909930	87	3.913125	47	3.916296	7	3.919444	67	3.922570
28	3.909984	88	3.913178	48	3.916349	8	3.919496	68	3.922622
29	3.910037	89	3.913231	49	3.916401	9	3.919549	69	3.922674
30	3.910091	90	3.913284	50	3.916454	10	3.919601	70	3.922725
8131	3.910144	8191	3.913337	8251	3.916507	8311	3.919653	8371	3.922777
32	3.910197	92	3.913390	52	3.916559	12	3.919706	72	3.922829
33	3.910251	93	3.913443	53	3.916612	13	3.919758	73	3.922881
34	3.910304	94	3.913496	54	3.916664	14	3.919810	74	3.922933
35	3.910358	95	3.913549	55	3.916717	15	3.919862	75	3.922985
8136	3.910411	8196	3.913602	8256	3.916770	8316	3.919914	8376	3.923037
37	3.910464	97	3.913655	57	3.916822	17	3.919967	77	3.923089
38	3.910518	98	3.913708	58	3.916875	18	3.920019	78	3.923140
39	3.910571	99	3.913761	59	3.916927	19	3.920071	79	3.923192
40	3.910624	8200	3.913814	60	3.916980	20	3.920123	80	3.923244
8141	3.910678	8201	3.913867	8261	3.917033	8321	3.920176	8381	3.923296
42	3.910731	2	3.913920	62	3.917085	22	3.920228	82	3.923348
43	3.910784	3	3.913973	63	3.917138	23	3.920280	83	3.923399
44	3.910838	4	3.914026	64	3.917190	24	3.920332	84	3.923451
45	3.910891	5	3.914079	65	3.917243	25	3.920384	85	3.923503
8146	3.910944	8206	3.914132	8266	3.917295	8326	3.920436	8386	3.923555
47	3.910998	7	3.914184	67	3.917348	27	3.920489	87	3.923607
48	3.911051	8	3.914237	68	3.917400	28	3.920541	88	3.923658
49	3.911104	9	3.914290	69	3.917453	29	3.920593	89	3.923710
50	3.911158	10	3.914343	70	3.917506	30	3.920645	90	3.923762
8151	3.911211	8211	3.914396	8271	3.917558	8331	3.920697	8391	3.923814
52	3.911264	12	3.914449	72	3.917611	32	3.920749	92	3.923865
53	3.911317	13	3.914502	73	3.917663	33	3.920801	93	3.923917
54	3.911371	14	3.914555	74	3.917716	34	3.920853	94	3.923969
55	3.911424	15	3.914608	75	3.917768	35	3.920906	95	3.924021
8156	3.911477	8216	3.914660	8276	3.917820	8336	3.920958	8396	3.924072
57	3.911530	17	3.914713	77	3.917873	37	3.921010	97	3.924124
58	3.911584	18	3.914766	78	3.917925	38	3.921062	98	3.924176
59	3.911637	19	3.914819	79	3.917978	39	3.921114	99	3.924228
60	3.911690	20	3.914872	80	3.918030	40	3.921166	8400	3.924279



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
8401	3.924331	8461	3.927422	8521	3.930491	8581	3.933538	8641	3.936564
2	3.924383	62	3.927473	22	3.930542	82	3.933589	42	3.936614
3	3.924434	63	3.927524	23	3.930592	83	3.933639	43	3.936665
4	3.924486	64	3.927576	24	3.930643	84	3.933690	44	3.936715
5	3.924538	65	3.927627	25	3.930694	85	3.933749	45	3.936765
8406	3.924589	8466	3.927678	8526	3.930745	8586	3.933799	8646	3.936815
7	3.924641	67	3.927730	27	3.930796	87	3.933841	47	3.936865
8	3.924693	68	3.927781	28	3.930847	88	3.933892	48	3.936916
9	3.924744	69	3.927832	29	3.930898	89	3.933943	49	3.936966
10	3.924796	70	3.927883	30	3.930949	90	3.933993	50	3.937016
8411	3.924848	8471	3.927935	8531	3.931000	8591	3.934044	8651	3.937066
12	3.924899	72	3.927986	32	3.931051	92	3.934094	52	3.937117
13	3.924951	73	3.928037	33	3.931102	93	3.934145	53	3.937167
14	3.925002	74	3.928088	34	3.931153	94	3.934195	54	3.937217
15	3.925054	75	3.928140	35	3.931204	95	3.934246	55	3.937267
8416	3.925106	8476	3.928191	8536	3.931254	8596	3.934296	8656	3.937317
17	3.925157	77	3.928242	37	3.931305	97	3.934347	57	3.937367
18	3.925209	78	3.928293	38	3.931356	98	3.934397	58	3.937418
19	3.925261	79	3.928345	39	3.931407	99	3.934448	59	3.937468
20	3.925312	80	3.928396	40	3.931458	8600	3.934498	60	3.937518
8421	3.925364	8481	3.928447	8541	3.931509	8601	3.934549	8661	3.937568
22	3.925415	82	3.928498	42	3.931560	2	3.934599	62	3.937618
23	3.925467	83	3.928549	43	3.931610	3	3.934650	63	3.937668
24	3.925518	84	3.928601	44	3.931661	4	3.934700	64	3.937718
25	3.925570	85	3.928652	45	3.931712	5	3.934751	65	3.937769
8426	3.925621	8486	3.928703	8546	3.931763	8606	3.934801	8666	3.937819
27	3.925673	87	3.928754	47	3.931814	7	3.934852	67	3.937869
28	3.925725	88	3.928805	48	3.931865	8	3.934902	68	3.937919
29	3.925776	89	3.928857	49	3.931915	9	3.934953	69	3.937969
30	3.925828	90	3.928908	50	3.931966	10	3.935003	70	3.938019
8431	3.925879	8491	3.928959	8551	3.932017	8611	3.935054	8671	3.938069
32	3.925931	92	3.929010	52	3.932068	12	3.935104	72	3.938119
33	3.925982	93	3.929061	53	3.932118	13	3.935154	73	3.938169
34	3.926034	94	3.929112	54	3.932169	14	3.935205	74	3.938219
35	3.926085	95	3.929163	55	3.932220	15	3.935255	75	3.938269
8436	3.926137	8496	3.929215	8556	3.932271	8616	3.935306	8676	3.938320
37	3.926188	97	3.929266	57	3.932322	17	3.935356	77	3.938370
38	3.926240	98	3.929317	58	3.932372	18	3.935406	78	3.938420
39	3.926291	99	3.929368	59	3.932423	19	3.935457	79	3.938470
40	3.926342	8500	3.929419	60	3.932474	20	3.935507	80	3.938520
8441	3.926394	8501	3.929470	8561	3.932524	8621	3.935558	8681	3.938570
42	3.926445	2	3.929521	62	3.932575	22	3.935608	82	3.938620
43	3.926497	3	3.929572	63	3.932626	23	3.935658	83	3.938670
44	3.926548	4	3.929623	64	3.932677	24	3.935709	84	3.938720
45	3.926600	5	3.929674	65	3.932727	25	3.935759	85	3.938770
8446	3.926651	8506	3.929725	8566	3.932778	8626	3.935809	8686	3.938820
47	3.926702	7	3.929776	67	3.932829	27	3.935860	87	3.938870
48	3.926754	8	3.929827	68	3.932879	28	3.935910	88	3.938920
49	3.926805	9	3.929879	69	3.932930	29	3.935960	89	3.938970
50	3.926857	10	3.929930	70	3.932981	30	3.936011	90	3.939020
8451	3.926908	8511	3.929981	8571	3.933031	8631	3.936061	8691	3.939070
52	3.926959	12	3.930032	72	3.933082	32	3.936111	92	3.939120
53	3.927011	13	3.930083	73	3.933133	33	3.936162	93	3.939170
54	3.927062	14	3.930134	74	3.933183	34	3.936212	94	3.939220
55	3.927114	15	3.930185	75	3.933234	35	3.936262	95	3.939270
8456	3.927165	8516	3.930236	8576	3.933285	8636	3.936313	8696	3.939320
57	3.927216	17	3.930287	77	3.933335	37	3.936363	97	3.939370
58	3.927268	18	3.930338	78	3.933386	38	3.936413	98	3.939420
59	3.927319	19	3.930389	79	3.933437	39	3.936463	99	3.939470
60	3.927370	20	3.930440	80	3.933487	40	3.936514	8700	3.939519



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
8701	3.939569	8761	3.942554	8821	3.945518	8881	3.948462	8941	3.951386
2	3.939619	62	3.942603	22	3.945567	82	3.948511	42	3.951435
3	3.939669	63	3.942653	23	3.945616	83	3.948560	43	3.951483
4	3.939719	64	3.942702	24	3.945665	84	3.948609	44	3.951532
5	3.939769	65	3.942752	25	3.945715	85	3.948657	45	3.951580
8706	3.939819	8766	3.942801	8826	3.945764	8886	3.948706	8946	3.951629
7	3.939869	67	3.942851	27	3.945813	87	3.948755	47	3.951677
8	3.939918	68	3.942901	28	3.945862	88	3.948804	48	3.951726
9	3.939968	69	3.942950	29	3.945912	89	3.948853	49	3.951774
10	3.940018	70	3.943000	30	3.945961	90	3.948902	50	3.951823
8711	3.940068	8771	3.943049	8831	3.946010	8891	3.948951	8951	3.951872
12	3.940118	72	3.943099	32	3.946059	92	3.948999	52	3.951920
13	3.940168	73	3.943148	33	3.946108	93	3.949048	53	3.951969
14	3.940218	74	3.943198	34	3.946157	94	3.949097	54	3.952017
15	3.940267	75	3.943247	35	3.946207	95	3.949146	55	3.952066
8716	3.940317	8776	3.943297	8836	3.946256	8896	3.949195	8956	3.952114
17	3.940367	77	3.943346	37	3.946305	97	3.949244	57	3.952163
18	3.940417	78	3.943396	38	3.946354	98	3.949292	58	3.952211
19	3.940467	79	3.943445	39	3.946403	99	3.949341	59	3.952260
20	3.940516	80	3.943495	40	3.946452	8900	3.949390	60	3.952308
8721	3.940566	8781	3.943544	8841	3.946501	8901	3.949439	8961	3.952356
22	3.940616	82	3.943593	42	3.946550	2	3.949488	62	3.952405
23	3.940666	83	3.943643	43	3.946600	3	3.949536	63	3.952453
24	3.940716	84	3.943692	44	3.946649	4	3.949585	64	3.952502
25	3.940765	85	3.943742	45	3.946698	5	3.949634	65	3.952550
8726	3.940815	8786	3.943791	8846	3.946747	8906	3.949683	8966	3.952599
27	3.940865	87	3.943841	47	3.946796	7	3.949731	67	3.952647
28	3.940915	88	3.943890	48	3.946845	8	3.949780	68	3.952696
29	3.940964	89	3.943939	49	3.946894	9	3.949829	69	3.952744
30	3.941014	90	3.943989	50	3.946943	10	3.949878	70	3.952792
8731	3.941064	8791	3.944038	8851	3.946992	8911	3.949926	8971	3.952841
32	3.941114	91	3.944088	52	3.947041	12	3.949975	72	3.952889
33	3.941163	93	3.944137	53	3.947090	13	3.950024	73	3.952938
34	3.941213	94	3.944186	54	3.947140	14	3.950073	74	3.952986
35	3.941263	95	3.944236	55	3.947189	15	3.950121	75	3.953034
8736	3.941313	8796	3.944285	8856	3.947238	8916	3.950170	8976	3.953083
37	3.941362	97	3.944335	57	3.947287	17	3.950219	77	3.953131
38	3.941412	98	3.944384	58	3.947336	18	3.950267	78	3.953180
39	3.941462	99	3.944433	59	3.947385	19	3.950316	79	3.953228
40	3.941511	8800	3.944483	60	3.947434	20	3.950365	80	3.953276
8741	3.941561	8801	3.944532	8861	3.947483	8921	3.950414	8981	3.953325
42	3.941611	2	3.944581	62	3.947532	22	3.950462	82	3.953373
43	3.941660	3	3.944631	63	3.947581	23	3.950511	83	3.953421
44	3.941710	4	3.944680	64	3.947630	24	3.950560	84	3.953470
45	3.941760	5	3.944729	65	3.947679	25	3.950608	85	3.953518
8746	3.941809	8806	3.944779	8866	3.947728	8926	3.950657	8986	3.953566
47	3.941859	7	3.944828	67	3.947777	27	3.950706	87	3.953615
48	3.941909	8	3.944877	68	3.947826	28	3.950754	88	3.953663
49	3.941958	9	3.944927	69	3.947875	29	3.950803	89	3.953711
50	3.942008	10	3.944976	70	3.947924	30	3.950851	90	3.953760
8751	3.942058	8811	3.945025	8871	3.947973	8931	3.950900	8991	3.953808
52	3.942107	12	3.945074	72	3.948022	32	3.950949	92	3.953856
53	3.942157	13	3.945124	73	3.948070	33	3.950997	93	3.953905
54	3.942207	14	3.945173	74	3.948119	34	3.951046	94	3.953953
55	3.942256	15	3.945222	75	3.948168	35	3.951095	95	3.954001
8756	3.942306	8816	3.945272	8876	3.948217	8936	3.951143	8996	3.954049
57	3.942355	17	3.945321	77	3.948266	37	3.951192	97	3.954098
58	3.942405	18	3.945370	78	3.948315	38	3.951240	98	3.954146
59	3.942455	19	3.945419	79	3.948364	39	3.951289	99	3.954194
60	3.942504	20	3.945469	80	3.948413	40	3.951338	9000	3.954243



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
9001	3.954291	9061	3.957176	9121	3.960042	9181	3.962890	9241	3.965719
2	3.954339	62	3.957224	23	3.960090	82	3.962937	42	3.965766
3	3.954387	63	3.957272	24	3.960138	83	3.962985	43	3.965813
4	3.954435	64	3.957320	25	3.960185	84	3.963032	44	3.965860
5	3.954484	65	3.957368	26	3.960233	85	3.963079	45	3.965907
9006	3.954532	9066	3.957416	9126	3.960280	9186	3.963126	9246	3.965954
7	3.954580	67	3.957464	27	3.960328	87	3.963174	47	3.966001
8	3.954628	68	3.957512	28	3.960376	88	3.963221	48	3.966048
9	3.954677	69	3.957559	29	3.960423	89	3.963268	49	3.966095
10	3.954725	70	3.957607	30	3.960471	90	3.963315	50	3.966142
9011	3.954773	9071	3.957655	9131	3.960518	9191	3.963363	9251	3.966189
12	3.954821	72	3.957703	32	3.960566	92	3.963410	52	3.966236
13	3.954869	73	3.957751	33	3.960613	93	3.963457	53	3.966283
14	3.954918	74	3.957799	34	3.960661	94	3.963504	54	3.966329
15	3.954966	75	3.957847	35	3.960709	95	3.963552	55	3.966376
9016	3.955014	9076	3.957895	9136	3.960756	9196	3.963599	9256	3.966423
17	3.955062	77	3.957942	37	3.960804	97	3.963646	57	3.966470
18	3.955110	78	3.957990	38	3.960851	98	3.963693	58	3.966517
19	3.955158	79	3.958038	39	3.960899	99	3.963741	59	3.966564
20	3.955207	80	3.958086	40	3.960946	9200	3.963788	60	3.966611
9021	3.955255	9081	3.958134	9141	3.960994	9201	3.963835	9261	3.966658
22	3.955303	82	3.958182	42	3.961041	2	3.963882	62	3.966705
23	3.955351	83	3.958229	43	3.961089	3	3.963929	63	3.966752
24	3.955399	84	3.958277	44	3.961136	4	3.963977	64	3.966798
25	3.955447	85	3.958325	45	3.961184	5	3.964024	65	3.966845
9026	3.955495	9086	3.958373	9146	3.961231	9206	3.964071	9266	3.966892
27	3.955543	87	3.958421	47	3.961279	7	3.964118	67	3.966939
28	3.955592	88	3.958468	48	3.961326	8	3.964165	68	3.966986
29	3.955640	89	3.958516	49	3.961374	9	3.964212	69	3.967033
30	3.955688	90	3.958564	50	3.961421	10	3.964260	70	3.967080
9031	3.955736	9091	3.958612	9151	3.961469	9211	3.964307	9271	3.967127
31	3.955784	92	3.958659	52	3.961516	12	3.964354	72	3.967173
32	3.955832	93	3.958707	53	3.961563	13	3.964401	73	3.967220
33	3.955880	94	3.958755	54	3.961611	14	3.964448	74	3.967267
34	3.955928	95	3.958803	55	3.961658	15	3.964495	75	3.967314
9036	3.955976	9096	3.958851	9156	3.961706	9216	3.964542	9276	3.967361
37	3.956024	97	3.958898	57	3.961753	17	3.964589	77	3.967408
38	3.956072	98	3.958946	58	3.961801	18	3.964637	78	3.967454
39	3.956120	99	3.958994	59	3.961848	19	3.964684	79	3.967501
40	3.956168	9200	3.959041	60	3.961895	20	3.964731	80	3.967548
9041	3.956216	9101	3.959089	9161	3.961943	9221	3.964778	9281	3.967595
42	3.956265	2	3.959137	62	3.961990	22	3.964825	82	3.967642
43	3.956313	3	3.959184	63	3.962038	23	3.964872	83	3.967688
44	3.956361	4	3.959232	64	3.962085	24	3.964919	84	3.967735
45	3.956409	5	3.959280	65	3.962132	25	3.964966	85	3.967782
9046	3.956457	9106	3.959328	9166	3.962180	9226	3.965013	9286	3.967829
47	3.956505	7	3.959375	67	3.962227	27	3.965060	87	3.967875
48	3.956553	8	3.959423	68	3.962275	28	3.965108	88	3.967922
49	3.956601	9	3.959471	69	3.962322	29	3.965155	89	3.967969
50	3.956649	10	3.959518	70	3.962369	30	3.965202	90	3.968016
9051	3.956697	9111	3.959566	9171	3.962417	9231	3.965249	9291	3.968062
52	3.956745	12	3.959614	72	3.962464	32	3.965296	92	3.968109
53	3.956793	13	3.959661	73	3.962511	33	3.965343	93	3.968156
54	3.956840	14	3.959709	74	3.962559	34	3.965390	94	3.968203
55	3.956888	15	3.959757	75	3.962606	35	3.965437	95	3.968249
9056	3.956936	9116	3.959804	9176	3.962653	9236	3.965484	9296	3.968296
57	3.956984	17	3.959852	77	3.962701	37	3.965531	97	3.968343
58	3.957032	18	3.959900	78	3.962748	38	3.965578	98	3.968389
59	3.957080	19	3.959947	79	3.962795	39	3.965625	99	3.968436
60	3.957128	20	3.959995	80	3.962843	9240	3.965672	9300	3.968483



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
9301	3.968530	9361	3.971322	9421	3.974097	9481	3.976854	9541	3.979594
2	3.968576	62	3.971369	22	3.974143	82	3.976900	42	3.979639
3	3.968623	63	3.971415	23	3.974189	83	3.976946	43	3.979685
4	3.968670	64	3.971461	24	3.974235	84	3.976992	44	3.979730
5	3.968716	65	3.971508	25	3.974281	85	3.977037	45	3.979776
9306	3.968763	9366	3.971554	9426	3.974327	9486	3.977083	9546	3.979821
7	3.968810	67	3.971600	27	3.974373	87	3.977129	47	3.979867
8	3.968856	68	3.971647	28	3.974420	88	3.977175	48	3.979912
9	3.968903	69	3.971693	29	3.974466	89	3.977220	49	3.979958
10	3.968950	70	3.971740	30	3.974512	90	3.977266	50	3.980003
9311	3.968996	9371	3.971786	9431	3.974558	9491	3.977312	9551	3.980049
12	3.969043	72	3.971832	32	3.974604	92	3.977358	52	3.980094
13	3.969090	73	3.971879	33	3.974650	93	3.977404	53	3.980140
14	3.969136	74	3.971925	34	3.974696	94	3.977449	54	3.980185
15	3.969183	75	3.971971	35	3.974742	95	3.977495	55	3.980231
9316	3.969229	9376	3.972018	9436	3.974788	9496	3.977541	9556	3.980276
17	3.969276	77	3.972064	37	3.974834	97	3.977586	57	3.980322
18	3.969323	78	3.972110	38	3.974880	98	3.977632	58	3.980367
19	3.969369	79	3.972156	39	3.974926	99	3.977678	59	3.980413
20	3.969416	80	3.972203	40	3.974972	9500	3.977724	60	3.980458
9321	3.969462	9381	3.972249	9441	3.975018	9501	3.977769	9561	3.980503
22	3.969509	82	3.972295	42	3.975064	2	3.977815	62	3.980549
23	3.969556	83	3.972342	43	3.975110	3	3.977861	63	3.980594
24	3.969602	84	3.972388	44	3.975156	4	3.977906	64	3.980640
25	3.969649	85	3.972434	45	3.975202	5	3.977952	65	3.980685
9326	3.969695	9386	3.972480	9446	3.975248	9506	3.977998	9566	3.980730
27	3.969742	87	3.972527	47	3.975294	7	3.978044	67	3.980776
28	3.969789	88	3.972573	48	3.975340	8	3.978089	68	3.980821
29	3.969835	89	3.972619	49	3.975386	9	3.978135	69	3.980867
30	3.969882	90	3.972666	50	3.975432	10	3.978181	70	3.980912
9331	3.969928	9391	3.972712	9451	3.975478	9511	3.978226	9571	3.980957
32	3.969975	92	3.972758	52	3.975524	12	3.978272	72	3.981003
33	3.970021	93	3.972804	53	3.975570	13	3.978317	73	3.981048
34	3.970068	94	3.972851	54	3.975616	14	3.978363	74	3.981093
35	3.970114	95	3.972897	55	3.975662	15	3.978409	75	3.981139
9336	3.970161	9396	3.972943	9456	3.975707	9516	3.978454	9576	3.981184
37	3.970207	97	3.972989	57	3.975753	17	3.978500	77	3.981230
38	3.970254	98	3.973035	58	3.975799	18	3.978546	78	3.981275
39	3.970300	99	3.973082	59	3.975845	19	3.978591	79	3.981320
40	3.970347	9400	3.973128	60	3.975891	20	3.978637	80	3.981365
9341	3.970393	9401	3.973174	9461	3.975937	9521	3.978683	9581	3.981411
42	3.970440	2	3.973220	62	3.975983	22	3.978728	82	3.981456
43	3.970486	3	3.973266	63	3.976029	23	3.978774	83	3.981501
44	3.970533	4	3.973313	64	3.976075	24	3.978819	84	3.981547
45	3.970579	5	3.973359	65	3.976121	25	3.978865	85	3.981592
9346	3.970626	9406	3.973405	9466	3.976166	9526	3.978911	9586	3.981637
47	3.970672	7	3.973451	67	3.976212	27	3.978956	87	3.981683
48	3.970719	8	3.973497	68	3.976258	28	3.979002	88	3.981728
49	3.970765	9	3.973543	69	3.976304	29	3.979047	89	3.981773
50	3.970812	10	3.973590	70	3.976350	30	3.979093	90	3.981819
9351	3.970858	9411	3.973636	9471	3.976396	9531	3.979139	9591	3.981864
52	3.970904	12	3.973682	72	3.976442	32	3.979184	92	3.981909
53	3.970951	13	3.973728	73	3.976488	33	3.979230	93	3.981954
54	3.970997	14	3.973774	74	3.976533	34	3.979275	94	3.982000
55	3.971044	15	3.973820	75	3.976579	35	3.979321	95	3.982045
9356	3.971090	9416	3.973866	9476	3.976625	9536	3.979366	9596	3.982090
57	3.971137	17	3.973913	77	3.976671	37	3.979412	97	3.982135
58	3.971183	18	3.973959	78	3.976717	38	3.979457	98	3.982181
59	3.971229	19	3.974005	79	3.976763	39	3.979503	99	3.982226
60	3.971276	20	3.974051	80	3.976808	40	3.979548	9600	3.982271



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
9601	3.982316	9661	3.985022	9721	3.987711	9781	3.990383	9841	3.993039
2	3.982362	62	3.985067	22	3.987756	82	3.990428	42	3.993083
3	3.982407	63	3.985112	23	3.987800	83	3.990472	43	3.993127
4	3.982452	64	3.985157	24	3.987844	84	3.990516	44	3.993172
5	3.982497	65	3.985202	25	3.987889	85	3.990561	45	3.993216
9606	3.982543	9666	3.985247	9726	3.987934	9786	3.990605	9846	3.993260
7	3.982588	67	3.985292	27	3.987979	87	3.990650	47	3.993304
8	3.982633	68	3.985337	28	3.988024	88	3.990694	48	3.993348
9	3.982678	69	3.985382	29	3.988068	89	3.990738	49	3.993392
10	3.982723	70	3.985426	30	3.988113	90	3.990783	50	3.993436
9611	3.982769	9671	3.985471	9731	3.988157	9791	3.990827	9851	3.993480
12	3.982814	72	3.985516	32	3.988202	92	3.990871	52	3.993524
13	3.982859	73	3.985561	33	3.988247	93	3.990916	53	3.993568
14	3.982904	74	3.985606	34	3.988291	94	3.990960	54	3.993613
15	3.982949	75	3.985651	35	3.988336	95	3.991004	55	3.993657
9616	3.982994	9676	3.985696	9736	3.988381	9796	3.991049	9856	3.993701
17	3.983040	77	3.985741	37	3.988425	97	3.991093	57	3.993745
18	3.983085	78	3.985786	38	3.988470	98	3.991137	58	3.993789
19	3.983130	79	3.985830	39	3.988514	99	3.991182	59	3.993833
20	3.983175	80	3.985875	40	3.988559	9800	3.991226	60	3.993877
9621	3.983220	9681	3.985920	9741	3.988603	9801	3.991270	9861	3.993921
22	3.983265	82	3.985965	42	3.988648	2	3.991315	62	3.993965
23	3.983310	83	3.986010	43	3.988693	3	3.991359	63	3.994009
24	3.983356	84	3.986055	44	3.988737	4	3.991403	64	3.994053
25	3.983401	85	3.986100	45	3.988782	5	3.991448	65	3.994097
9626	3.983446	9686	3.986144	9746	3.988826	9806	3.991492	9866	3.994141
27	3.983491	87	3.986189	47	3.988871	7	3.991536	67	3.994185
28	3.983536	88	3.986234	48	3.988915	8	3.991580	68	3.994229
29	3.983581	89	3.986279	49	3.988960	9	3.991625	69	3.994273
30	3.983626	90	3.986324	50	3.989005	10	3.991669	70	3.994317
9631	3.983671	9691	3.986369	9751	3.989049	9811	3.991713	9871	3.994361
32	3.983716	92	3.986413	52	3.989094	12	3.991757	72	3.994405
33	3.983762	93	3.986458	53	3.989138	13	3.991802	73	3.994449
34	3.983807	94	3.986503	54	3.989183	14	3.991846	74	3.994493
35	3.983852	95	3.986548	55	3.989227	15	3.991890	75	3.994537
9636	3.983897	9696	3.986593	9756	3.989272	9816	3.991934	9876	3.994581
37	3.983942	97	3.986637	57	3.989316	17	3.991979	77	3.994625
38	3.983987	98	3.986682	58	3.989361	18	3.992023	78	3.994669
39	3.984032	99	3.986727	59	3.989405	19	3.992067	79	3.994713
40	3.984077	9700	3.986772	60	3.989450	20	3.992111	80	3.994757
9641	3.984122	9701	3.986816	9761	3.989494	9821	3.992156	9881	3.994801
42	3.984167	2	3.986861	62	3.989539	22	3.992200	82	3.994845
43	3.984212	3	3.986906	63	3.989583	23	3.992244	83	3.994889
44	3.984257	4	3.986951	64	3.989628	24	3.992288	84	3.994933
45	3.984302	5	3.986996	65	3.989672	25	3.992333	85	3.994977
9646	3.984347	9706	3.987040	9766	3.989717	9826	3.992377	9886	3.995021
47	3.984392	7	3.987085	67	3.989761	27	3.992421	87	3.995064
48	3.984437	8	3.987130	68	3.989806	28	3.992465	88	3.995108
49	3.984482	9	3.987175	69	3.989850	29	3.992509	89	3.995152
50	3.984527	10	3.987219	70	3.989895	30	3.992553	90	3.995196
9651	3.984572	9711	3.987264	9771	3.989939	9831	3.992598	9891	3.995240
52	3.984617	12	3.987309	72	3.989983	32	3.992642	92	3.995284
53	3.984662	13	3.987353	73	3.990028	33	3.992686	93	3.995328
54	3.984707	14	3.987398	74	3.990072	34	3.992730	94	3.995372
55	3.984752	15	3.987443	75	3.990117	35	3.992774	95	3.995416
9656	3.984797	9716	3.987487	9776	3.990161	9836	3.992818	9896	3.995460
57	3.984842	17	3.987532	77	3.990206	37	3.992863	97	3.995504
58	3.984887	18	3.987577	78	3.990250	38	3.992907	98	3.995547
59	3.984932	19	3.987622	79	3.990294	39	3.992951	99	3.995591
60	3.984977	20	3.987666	80	3.990339	40	3.992995	9900	3.995635



LOGARITHMES DES NOMBRES.

No. n.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
9901	3.995679	9961	3.998303	10021	4.000911	10081	4.003504	10141	4.006081
2	3.995723	62	3.998346	22	4.000954	82	4.003547	42	4.006124
3	3.995767	63	3.998390	23	4.000998	83	4.003590	43	4.006166
4	3.995811	64	3.998434	24	4.001041	84	4.003633	44	4.006209
5	3.995854	65	3.998477	25	4.001084	85	4.003676	45	4.006252
9906	3.995898	9966	3.998521	10026	4.001128	10086	4.003719	10146	4.006295
7	3.995942	67	3.998564	27	4.001171	87	4.003762	47	4.006338
8	3.995986	68	3.998608	28	4.001214	88	4.003805	48	4.006380
9	3.996030	69	3.998652	29	4.001258	89	4.003848	49	4.006423
10	3.996074	70	3.998695	30	4.001301	90	4.003891	50	4.006466
9911	3.996117	9971	3.998739	10031	4.001344	10091	4.003934	10151	4.006509
12	3.996161	72	3.998782	32	4.001388	92	4.003977	52	4.006552
13	3.996205	73	3.998826	33	4.001431	93	4.004020	53	4.006594
14	3.996249	74	3.998869	34	4.001474	94	4.004063	54	4.006637
15	3.996293	75	3.998913	35	4.001517	95	4.004106	55	4.006680
9916	3.996336	9976	3.998956	10036	4.001561	10096	4.004149	10156	4.006723
17	3.996380	77	3.998999	37	4.001604	97	4.004192	57	4.006766
18	3.996424	78	3.999043	38	4.001647	98	4.004235	58	4.006808
19	3.996468	79	3.999087	39	4.001690	99	4.004278	59	4.006851
20	3.996512	80	3.999130	40	4.001734	10100	4.004321	60	4.006894
9921	3.996555	9981	3.999174	10041	4.001777	10101	4.004364	10161	4.006936
22	3.996599	82	3.999218	42	4.001820	2	4.004407	62	4.006979
23	3.996643	83	3.999261	43	4.001863	3	4.004450	63	4.007022
24	3.996687	84	3.999305	44	4.001907	4	4.004493	64	4.007065
25	3.996730	85	3.999348	45	4.001950	5	4.004536	65	4.007107
9926	3.996774	9986	3.999392	10046	4.001993	10106	4.004579	10166	4.007150
27	3.996818	87	3.999435	47	4.002036	7	4.004622	67	4.007193
28	3.996862	88	3.999478	48	4.002080	8	4.004665	68	4.007236
29	3.996905	89	3.999522	49	4.002123	9	4.004708	69	4.007278
30	3.996949	90	3.999565	50	4.002166	10	4.004751	70	4.007321
9931	3.996993	9991	3.999609	10051	4.002209	10111	4.004794	10171	4.007364
32	3.997037	92	3.999652	52	4.002252	12	4.004837	72	4.007406
33	3.997080	93	3.999696	53	4.002296	13	4.004880	73	4.007449
34	3.997124	94	3.999739	54	4.002339	14	4.004923	74	4.007492
35	3.997168	95	3.999783	55	4.002382	15	4.004966	75	4.007534
9936	3.997212	9996	3.999826	10056	4.002425	10116	4.005009	10176	4.007577
37	3.997255	97	3.999870	57	4.002468	17	4.005052	77	4.007620
38	3.997299	98	3.999913	58	4.002512	18	4.005095	78	4.007662
39	3.997343	99	3.999957	59	4.002555	19	4.005138	79	4.007705
40	3.997386	10000	4.000000	60	4.002598	20	4.005181	80	4.007748
9941	3.997430	10001	4.000043	10061	4.002641	10121	4.005223	10181	4.007790
42	3.997474	2	4.000087	62	4.002684	22	4.005266	82	4.007833
43	3.997517	3	4.000130	63	4.002727	23	4.005309	83	4.007876
44	3.997561	4	4.000174	64	4.002771	24	4.005352	84	4.007918
45	3.997605	5	4.000217	65	4.002814	25	4.005395	85	4.007961
9946	3.997648	10006	4.000260	10066	4.002857	10126	4.005438	10186	4.008004
47	3.997692	7	4.000304	67	4.002900	27	4.005481	87	4.008046
48	3.997736	8	4.000347	68	4.002943	28	4.005524	88	4.008089
49	3.997779	9	4.000391	69	4.002986	29	4.005567	89	4.008132
50	3.997823	10	4.000434	70	4.003029	30	4.005609	90	4.008174
9951	3.997867	10011	4.000477	10071	4.003073	10131	4.005652	10191	4.008217
52	3.997910	12	4.000521	72	4.003116	32	4.005695	92	4.008259
53	3.997954	13	4.000564	73	4.003159	33	4.005738	93	4.008302
54	3.997998	14	4.000608	74	4.003202	34	4.005781	94	4.008345
55	3.998041	15	4.000651	75	4.003245	35	4.005824	95	4.008387
9956	3.998085	10016	4.000694	10076	4.003288	10136	4.005867	10196	4.008430
57	3.998128	17	4.000738	77	4.003331	37	4.005909	97	4.008472
58	3.998172	18	4.000781	78	4.003374	38	4.005952	98	4.008515
59	3.998216	19	4.000824	79	4.003417	39	4.005995	99	4.008558
60	3.998259	20	4.000868	80	4.003461	40	4.006038	10000	4.008600



LOGARITHMES DES NOMBRES.

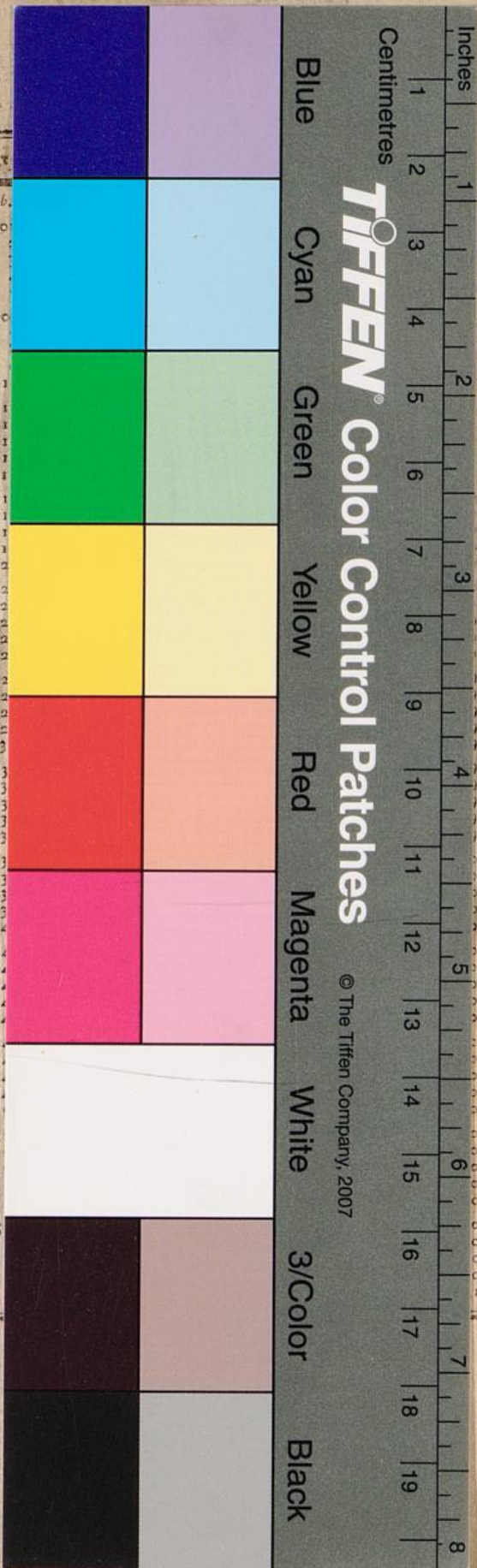
Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
10201	4.008643	10261	4.011190	10321	4.013722	10381	4.016239	10441	4.018742
2	4.008685	62	4.011232	22	4.013764	82	4.016281	42	4.018784
3	4.008728	63	4.011274	23	4.013806	83	4.016323	43	4.018825
4	4.008770	64	4.011317	24	4.013848	84	4.016365	44	4.018867
5	4.008813	65	4.011359	25	4.013890	85	4.016406	45	4.018908
10206	4.008856	10266	4.011401	10326	4.013932	10386	4.016448	10446	4.018950
7	4.008898	67	4.011444	27	4.013974	87	4.016490	47	4.018992
8	4.008941	68	4.011486	28	4.014016	88	4.016532	48	4.019033
9	4.008983	69	4.011528	29	4.014058	89	4.016574	49	4.019075
10	4.009026	70	4.011570	30	4.014100	90	4.016616	50	4.019116
10211	4.009068	10271	4.011613	10331	4.014142	10391	4.016657	10451	4.019158
12	4.009111	72	4.011655	32	4.014184	92	4.016699	52	4.019199
13	4.009153	73	4.011697	33	4.014226	93	4.016741	53	4.019241
14	4.009196	74	4.011740	34	4.014268	94	4.016783	54	4.019282
15	4.009238	75	4.011782	35	4.014310	95	4.016824	55	4.019324
10216	4.009281	10276	4.011824	10336	4.014353	10396	4.016866	10456	4.019366
17	4.009323	77	4.011866	37	4.014395	97	4.016908	57	4.019407
18	4.009366	78	4.011909	38	4.014437	98	4.016950	58	4.019449
19	4.009408	79	4.011951	39	4.014479	99	4.016992	59	4.019490
20	4.009451	80	4.011993	40	4.014521	10400	4.017033	60	4.019532
10221	4.009493	10281	4.012035	10341	4.014563	10401	4.017075	10461	4.019573
22	4.009536	82	4.012078	42	4.014605	2	4.017117	62	4.019615
23	4.009578	83	4.012120	43	4.014647	3	4.017159	63	4.019656
24	4.009621	84	4.012162	44	4.014689	4	4.017200	64	4.019698
25	4.009663	85	4.012204	45	4.014730	5	4.017242	65	4.019739
10226	4.009706	10286	4.012247	10346	4.014772	10406	4.017284	10466	4.019781
27	4.009748	87	4.012289	47	4.014814	7	4.017326	67	4.019822
28	4.009791	88	4.012331	48	4.014856	8	4.017367	68	4.019864
29	4.009833	89	4.012373	49	4.014898	9	4.017409	69	4.019905
30	4.009876	90	4.012415	50	4.014940	10	4.017451	70	4.019947
10231	4.009918	10291	4.012458	10351	4.014982	10411	4.017492	10471	4.019988
32	4.009961	92	4.012500	52	4.015024	12	4.017534	72	4.020030
33	4.010003	93	4.012542	53	4.015066	13	4.017576	73	4.020071
34	4.010045	94	4.012584	54	4.015108	14	4.017618	74	4.020113
35	4.010088	95	4.012626	55	4.015150	15	4.017659	75	4.020154
10236	4.010130	10296	4.012669	10356	4.015192	10416	4.017701	10476	4.020195
37	4.010173	97	4.012711	57	4.015234	17	4.017743	77	4.020237
38	4.010215	98	4.012753	58	4.015276	18	4.017784	78	4.020278
39	4.010258	99	4.012795	59	4.015318	19	4.017826	79	4.020320
40	4.010300	10300	4.012837	60	4.015360	20	4.017868	80	4.020361
10241	4.010342	10301	4.012879	10361	4.015402	10421	4.017909	10481	4.020403
42	4.010385	2	4.012922	62	4.015444	22	4.017951	82	4.020444
43	4.010427	3	4.012964	63	4.015485	23	4.017993	83	4.020486
44	4.010470	4	4.013006	64	4.015527	24	4.018034	84	4.020527
45	4.010512	5	4.013048	65	4.015569	25	4.018076	85	4.020568
10246	4.010554	10306	4.013090	10366	4.015611	10426	4.018118	10486	4.020610
47	4.010597	7	4.013132	67	4.015653	27	4.018159	87	4.020651
48	4.010639	8	4.013174	68	4.015695	28	4.018201	88	4.020693
49	4.010681	9	4.013217	69	4.015737	29	4.018243	89	4.020734
50	4.010724	10	4.013259	70	4.015779	30	4.018284	90	4.020775
10251	4.010766	10311	4.013301	10371	4.015821	10431	4.018326	10491	4.020817
52	4.010809	12	4.013343	72	4.015863	32	4.018368	92	4.020858
53	4.010851	13	4.013385	73	4.015904	33	4.018409	93	4.020900
54	4.010893	14	4.013427	74	4.015946	34	4.018451	94	4.020941
55	4.010936	15	4.013469	75	4.015988	35	4.018492	95	4.020982
10256	4.010978	10316	4.013511	10376	4.016030	10436	4.018534	10496	4.021024
57	4.011020	17	4.013553	77	4.016072	37	4.018576	97	4.021065
58	4.011063	18	4.013596	78	4.016114	38	4.018617	98	4.021107
59	4.011105	19	4.013638	79	4.016156	39	4.018659	99	4.021148
60	4.011147	20	4.013680	80	4.016197	40	4.018700	10500	4.021189



LOGARITHMES DES NOMBRES.

Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.	Nomb.	Logarith.
10501	4.021231	10561	4.023705	10621	4.026165	10681	4.028612	10741	4.031044
2	4.021272	62	4.023746	22	4.026206	82	4.028653	42	4.031085
3	4.021313	63	4.023787	23	4.026247	83	4.028693	43	4.031125
4	4.021355	64	4.023828	24	4.026288	84	4.028734	44	4.031166
5	4.021396	65	4.023870	25	4.026329	85	4.028774	45	4.031206
10506	4.021437	10566	4.023911	10626	4.026370	10686	4.028815	10746	4.031246
7	4.021479	67	4.023952	27	4.026411	87	4.028856	47	4.031287
8	4.021520	68	4.023993	28	4.026452	88	4.028896	48	4.031327
9	4.021561	69	4.024034	29	4.026492	89	4.028937	49	4.031368
10	4.021603	70	4.024075	30	4.026533	90	4.028978	50	4.031408
10511	4.021644	10571	4.024116	10631	4.026574	10691	4.029018	10751	4.031448
12	4.021685	72	4.024157	32	4.026615	92	4.029059	52	4.031489
13	4.021727	73	4.024198	33	4.026656	93	4.029100	53	4.031529
14	4.021768	74	4.024239	34	4.026697	94	4.029140	54	4.031570
15	4.021809	75	4.024280	35	4.026737	95	4.029181	55	4.031610
10516	4.021851	10576	4.024321	10636	4.026778	10696	4.029221	10756	4.031650
17	4.021892	77	4.024363	37	4.026819	97	4.029262	57	4.031691
18	4.021933	78	4.024404	38	4.026860	98	4.029303	58	4.031731
19	4.021974	79	4.024445	39	4.026901	99	4.029343	59	4.031771
20	4.022016	80	4.024486	40	4.026942	1000	4.029383	60	4.031812
10521	4.022057	10581	4.024527	10641	4.026982	10701	4.029424	10761	4.031852
22	4.022098	82	4.024568	42	4.027023	2	4.029464	62	4.031893
23	4.022140	83	4.024609	43	4.027064	3	4.029505	63	4.031933
24	4.022181	84	4.024650	44	4.027105	4	4.029546	64	4.031973
25	4.022222	85	4.024691	45	4.027146	5	4.029586	65	4.032014
10526	4.022263	10586	4.024732	10646	4.027186	10706	4.029627	10766	4.032054
27	4.022305	87	4.024773	47	4.027227	7	4.029667	67	4.032094
28	4.022346	88	4.024814	48	4.027268	8	4.029708	68	4.032135
29	4.022387	89	4.024855	49	4.027309	9	4.029748	69	4.032175
30	4.022428	90	4.024896	50	4.027350	10	4.029789	70	4.032215
10531	4.022470	10591	4.024937	10651	4.027390	10711	4.029830	10771	4.032256
32	4.022511	92	4.024978	52	4.027431	12	4.029870	72	4.032296
33	4.022552	93	4.025019	53	4.027472	13	4.029911	73	4.032336
34	4.022593	94	4.025060	54	4.027513	14	4.029951	74	4.032377
35	4.022635	95	4.025101	55	4.027553	15	4.029992	75	4.032417
10536	4.022676	10596	4.025142	10656	4.027594	10716	4.030032	10776	4.032457
37	4.022717	97	4.025183	57	4.027635	17	4.030073	77	4.032497
38	4.022758	98	4.025224	58	4.027676	18	4.030113	78	4.032538
39	4.022799	99	4.025265	59	4.027716	19	4.030154	79	4.032578
40	4.022841	1000	4.025306	60	4.027757	20	4.030194	80	4.032618
10541	4.022882	10601	4.025347	10661	4.027798	10721	4.030235	10781	4.032659
42	4.022923	2	4.025388	62	4.027839	22	4.030275	82	4.032699
43	4.022964	3	4.025429	63	4.027879	23	4.030316	83	4.032739
44	4.023005	4	4.025470	64	4.027920	24	4.030356	84	4.032779
45	4.023047	5	4.025511	65	4.027961	25	4.030397	85	4.032820
10546	4.023088	10606	4.025552	10666	4.028002	10726	4.030437	10786	4.032860
47	4.023129	7	4.025593	67	4.028042	27	4.030478	87	4.032900
48	4.023170	8	4.025634	68	4.028083	28	4.030518	88	4.032940
49	4.023211	9	4.025674	69	4.028124	29	4.030559	89	4.032981
50	4.023252	10	4.025715	70	4.028164	30	4.030599	90	4.033021
10551	4.023294	10611	4.025756	10671	4.028205	10731	4.030640	10791	4.033061
52	4.023335	12	4.025797	72	4.028246	32	4.030680	92	4.033101
53	4.023376	13	4.025838	73	4.028287	33	4.030721	93	4.033142
54	4.023417	14	4.025879	74	4.028327	34	4.030761	94	4.033182
55	4.023458	15	4.025920	75	4.028368	35	4.030802	95	4.033222
10556	4.023499	10616	4.025961	10676	4.028409	10736	4.030842	10796	4.033262
57	4.023541	17	4.026002	77	4.028449	37	4.030883	97	4.033303
58	4.023582	18	4.026043	78	4.028490	38	4.030923	98	4.033343
59	4.023623	19	4.026084	79	4.028531	39	4.030963	99	4.033383
60	4.023664	20	4.026125	80	4.028571	40	4.031004	1000	4.033423





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Nomb.	Logarith.
10741	4.031044
42	4.031085
43	4.031125
44	4.031166
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10746	4.031246
47	4.031287
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50	4.031408
10751	4.031448
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53	4.031529
54	4.031570
55	4.031610
10756	4.031650
57	4.031691
58	4.031731
59	4.031771
60	4.031812
10761	4.031852
62	4.031893
63	4.031933
64	4.031973
65	4.032014
10766	4.032054
67	4.032094
68	4.032135
69	4.032175
70	4.032215
10771	4.032256
72	4.032296
73	4.032336
74	4.032377
75	4.032417
10776	4.032457
77	4.032497
78	4.032538
79	4.032578
80	4.032618
10781	4.032659
82	4.032699
83	4.032739
84	4.032779
85	4.032820
10786	4.032860
87	4.032900
88	4.032940
89	4.032981
90	4.033021
10791	4.033061
92	4.033101
93	4.033142
94	4.033182
95	4.033222
10796	4.033262
97	4.033303
98	4.033343
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10800	4.033423