TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

0° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 179° ′
0	∞	— —	∞	∞	— —	∞	10.00000	0	10.00000	60
1	6.46373	30103	13.53627	6.46373	30103	13.53627	.00000	0	.00000	59
2	.76476	17609	.23524	.76476	17609	.23524	.00000	0	.00000	58
3	6.94085	12494	.05915	6.94085	12494	.05915	.00000	0	.00000	57
4	7.06579	9691	.93421	7.06579	9691	.93421	.00000	0	.00000	56
5	7.16270	7918	12.83730	7.16270	7918	12.83730	10.00000	0	10.00000	55
6	.24188	6694	.75812	.24188	6694	.75812	.00000	0	.00000	54
7	.30882	5800	.69118	.30882	5800	.69118	.00000	0	.00000	53
8	.36682	5115	.63318	.36682	5115	.63318	.00000	0	.00000	52
9	.41797	4576	.58203	.41797	4576	.58203	.00000	0	.00000	51
10	7.46373	4139	12.53627	7.46373	4139	12.53627	10.00000	0	10.00000	50
11	.50512	3779	.49488	.50512	3779	.49488	.00000	0	.00000	49
12	.54291	3476	.45709	.54291	3476	.45709	.00000	0	.00000	48
13	.57767	3218	.42233	.57767	3219	.42233	.00000	0	.00000	47
14	.60985	2997	.39015	.60986	2996	.39014	.00000	0	.00000	46
15	7.63982	2802	12.36018	7.63982	2803	12.36018	10.00000	0	10.00000	45
16	.66784	2633	.33216	.66785	2633	.33215	.00000	0	.00000	44
17	.69417	2483	.30583	.69418	2482	.30582	.00001	1	.99999	43
18	.71900	2348	.28100	.71900	2348	.28100	.00001	0	.99999	42
19	.74248	2227	.25752	.74248	2228	.25752	.00001	0	.99999	41
20	7.76475	2119	12.23525	7.76476	2119	12.23524	10.00001	0	9.99999	40
21	.78594	2021	.21406	.78595	2020	.21405	.00001	0	.99999	39
22	.80615	1930	.19385	.80615	1931	.19385	.00001	0	.99999	38
23	.82545	1848	.17455	.82546	1848	.17454	.00001	0	.99999	37
24	.84393	1773	.15607	.84394	1773	.15606	.00001	0	.99999	36
25	7.86166	1704	12.13834	7.86167	1704	12.13833	10.00001	0	9.99999	35
26	.87870	1639	.12130	.87871	1639	.12129	.00001	0	.99999	34
27	.89509	1579	.10491	.89510	1579	.10490	.00001	0	.99999	33
28	.91088	1524	.08912	.91089	1524	.08911	.00001	0	.99999	32
29	.92612	1472	.07388	.92613	1473	.07387	.00002	1	.99998	31
30	7.94084	1424	12.05916	7.94086	1424	12.05914	10.00002	0	9.99998	30
31	.95508	1379	.04492	.95510	1379	.04490	.00002	0	.99998	29
32	.96887	1336	.03113	.96889	1336	.03111	.00002	0	.99998	28
33	.98223	1297	.01777	.98225	1297	.01775	.00002	0	.99998	27
34	7.99520	1259	.00480	7.99522	1259	.00478	.00002	0	.99998	26
35	8.00779	1223	11.99221	8.00781	1223	11.99219	10.00002	0	9.99998	25
36	.02002	1190	.97998	.02004	1190	.97996	.00002	0	.99998	24
37	.03192	1158	.96808	.03194	1159	.96806	.00003	1	.99997	23
38	.04350	1128	.95650	.04353	1128	.95647	.00003	0	.99997	22
39	.05478	1100	.94522	.05481	1100	.94519	.00003	0	.99997	21
40	8.06578	1072	11.93422	8.06581	1072	11.93419	10.00003	0	9.99997	20
41	.07650	1046	.92350	.07653	1047	.92347	.00003	0	.99997	19
42	.08696	1022	.91304	.08700	1022	.91300	.00003	0	.99997	18
43	.09718	999	.90282	.09722	998	.90278	.00003	0	.99997	17
44	.10717	976	.89283	.10720	976	.89280	.00004	1	.99996	16
45	8.11693	954	11.88307	8.11696	955	11.88304	10.00004	0	9.99996	15
46	.12647	934	.87353	.12651	934	.87349	.00004	0	.99996	14
47	.13581	914	.86419	.13585	915	.86415	.00004	0	.99996	13
48	.14495	896	.85505	.14500	895	.85500	.00004	0	.99996	12
49	.15391	877	.84609	.15395	878	.84605	.00004	1	.99996	11
50	8.16268	860	11.83732	8.16273	860	11.83727	10.00005	0	9.99995	10
51	.17128	843	.82872	.17133	843	.82867	.00005	0	.99995	9
52	.17971	827	.82029	.17976	828	.82024	.00005	0	.99995	8
53	.18798	812	.81202	.18804	812	.81196	.00005	0	.99995	7
54	.19610	797	.80390	.19616	797	.80384	.00005	1	.99995	6
55	8.20407	782	11.79593	8.20413	782	11.79587	10.00006	0	9.99994	5
56	.21189	769	.78811	.21195	769	.78805	.00006	0	.99994	4
57	.21958	755	.78042	.21964	756	.78036	.00006	0	.99994	3
58	.22713	743	.77287	.22720	742	.77280	.00006	0	.99994	2
59	.23456	730	.76544	.23462	730	.76538	.00006	0	.99994	1
60	8.24186		11.75814	8.24192		11.75808	10.00007	1	9.99993	0
↑ 90° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 89° ↑

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

1° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 178° ′
0	8.24186	717	11.75814	8.24192	718	11.75808	10.00007	0	9.99993	60
1	.24903	706	.75097	.24910	706	.75090	.00007	0	.99993	59
2	.25609	695	.74391	.25616	696	.74384	.00007	0	.99993	58
3	.26304	684	.73696	.26312	684	.73688	.00007	0	.99993	57
4	.26988	673	.73012	.26996	673	.73004	.00008	1	.99992	56
5	8.27661	663	11.72339	8.27669	663	11.72331	10.00008	0	9.99992	55
6	.28324	653	.71676	.28332	654	.71668	.00008	0	.99992	54
7	.28977	644	.71023	.28986	643	.71014	.00008	0	.99992	53
8	.29621	634	.70379	.29629	634	.70371	.00008	0	.99992	52
9	.30255	624	.69745	.30263	625	.69737	.00009	1	.99991	51
10	8.30879	616	11.69121	8.30888	617	11.69112	10.00009	0	9.99991	50
11	.31495	608	.68505	.31505	607	.68495	.00009	0	.99991	49
12	.32103	599	.67897	.32112	599	.67888	.00010	1	.99990	48
13	.32702	590	.67298	.32711	591	.67289	.00010	0	.99990	47
14	.33292	583	.66708	.33302	584	.66698	.00010	0	.99990	46
15	8.33875	575	11.66125	8.33886	575	11.66114	10.00010	0	9.99990	45
16	.34450	568	.65550	.34461	568	.65539	.00011	1	.99989	44
17	.35018	560	.64982	.35029	561	.64971	.00011	0	.99989	43
18	.35578	553	.64422	.35590	553	.64410	.00011	0	.99989	42
19	.36131	547	.63869	.36143	546	.63857	.00011	0	.99989	41
20	8.36678	539	11.63322	8.36689	540	11.63311	10.00012	1	9.99988	40
21	.37217	533	.62783	.37229	533	.62771	.00012	0	.99988	39
22	.37750	526	.62250	.37762	527	.62238	.00012	0	.99988	38
23	.38276	520	.61724	.38289	520	.61711	.00013	1	.99987	37
24	.38796	514	.61204	.38809	514	.61191	.00013	0	.99987	36
25	8.39310	508	11.60690	8.39323	509	11.60677	10.00013	0	9.99987	35
26	.39818	502	.60182	.39832	502	.60168	.00014	1	.99986	34
27	.40320	496	.59680	.40334	496	.59666	.00014	0	.99986	33
28	.40816	491	.59184	.40830	491	.59170	.00014	0	.99986	32
29	.41307	485	.58693	.41321	486	.58679	.00015	1	.99985	31
30	8.41792	480	11.58208	8.41807	480	11.58193	10.00015	0	9.99985	30
31	.42272	474	.57728	.42287	475	.57713	.00015	0	.99985	29
32	.42746	470	.57254	.42762	470	.57238	.00016	1	.99984	28
33	.43216	464	.56784	.43232	464	.56768	.00016	0	.99984	27
34	.43680	459	.56320	.43696	460	.56304	.00016	0	.99984	26
35	8.44139	455	11.55861	8.44156	455	11.55844	10.00017	1	9.99983	25
36	.44594	450	.55406	.44611	450	.55389	.00017	0	.99983	24
37	.45044	445	.54956	.45061	446	.54939	.00017	0	.99983	23
38	.45489	441	.54511	.45507	441	.54493	.00018	1	.99982	22
39	.45930	436	.54070	.45948	437	.54052	.00018	0	.99982	21
40	8.46366	433	11.53634	8.46385	432	11.53615	10.00018	0	9.99982	20
41	.46799	427	.53201	.46817	428	.53183	.00019	1	.99981	19
42	.47226	424	.52774	.47245	424	.52755	.00019	0	.99981	18
43	.47650	419	.52350	.47669	420	.52331	.00019	0	.99981	17
44	.48069	416	.51931	.48089	416	.51911	.00020	1	.99980	16
45	8.48485	411	11.51515	8.48505	412	11.51495	10.00020	0	9.99980	15
46	.48896	408	.51104	.48917	408	.51083	.00021	1	.99979	14
47	.49304	404	.50696	.49325	404	.50675	.00021	0	.99979	13
48	.49708	400	.50292	.49729	401	.50271	.00021	0	.99979	12
49	.50108	396	.49892	.50130	397	.49870	.00022	1	.99978	11
50	8.50504	393	11.49496	8.50527	393	11.49473	10.00022	0	9.99978	10
51	.50897	390	.49103	.50920	390	.49080	.00023	1	.99977	9
52	.51287	386	.48713	.51310	386	.48690	.00023	0	.99977	8
53	.51673	382	.48327	.51696	383	.48304	.00023	0	.99977	7
54	.52055	379	.47945	.52079	380	.47921	.00024	1	.99976	6
55	8.52434	376	11.47566	8.52459	376	11.47541	10.00024	0	9.99976	5
56	.52810	373	.47190	.52835	373	.47165	.00025	1	.99975	4
57	.53183	369	.46817	.53208	370	.46792	.00025	0	.99975	3
58	.53552	367	.46448	.53578	367	.46422	.00026	1	.99974	2
59	.53919	363	.46081	.53945	363	.46055	.00026	0	.99974	1
60	8.54282		11.45718	8.54308		11.45692	10.00026	0	9.99974	0
↑ 91° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 88° ↑

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

2° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 177° ′
0	8.54282	360	11.45718	8.54308	361	11.45692	10.00026	1	9.99974	60
1	.54642	357	.45358	.54669	358	.45331	.00027	0	.99973	59
2	.54999	355	.45001	.55027	355	.44973	.00027	1	.99973	58
3	.55354	351	.44646	.55382	352	.44618	.00028	0	.99972	57
4	.55705	349	.44295	.55734	349	.44266	.00028	1	.99972	56
5	8.56054	346	11.43946	8.56083	346	11.43917	10.00029	0	9.99971	55
6	.56400	343	.43600	.56429	344	.43571	.00029	1	.99971	54
7	.56743	341	.43257	.56773	341	.43227	.00030	0	.99970	53
8	.57084	337	.42916	.57114	338	.42886	.00030	1	.99970	52
9	.57421	336	.42579	.57452	336	.42548	.00031	0	.99969	51
10	8.57757	332	11.42243	8.57788	333	11.42212	10.00031	1	9.99969	50
11	.58089	330	.41911	.58121	330	.41879	.00032	0	.99968	49
12	.58419	328	.41581	.58451	328	.41549	.00032	1	.99968	48
13	.58747	325	.41253	.58779	326	.41221	.00033	0	.99967	47
14	.59072	323	.40928	.59105	323	.40895	.00033	0	.99967	46
15	8.59395	320	11.40605	8.59428	321	11.40572	10.00033	1	9.99967	45
16	.59715	318	.40285	.59749	319	.40251	.00034	0	.99966	44
17	.60033	316	.39967	.60068	316	.39932	.00034	1	.99966	43
18	.60349	313	.39651	.60384	314	.39616	.00035	1	.99965	42
19	.60662	311	.39338	.60698	311	.39302	.00036	0	.99964	41
20	8.60973	309	11.39027	8.61009	310	11.38991	10.00036	1	9.99964	40
21	.61282	307	.38718	.61319	307	.38681	.00037	0	.99963	39
22	.61589	305	.38411	.61626	305	.38374	.00037	1	.99963	38
23	.61894	302	.38106	.61931	303	.38069	.00038	0	.99962	37
24	.62196	301	.37804	.62234	301	.37766	.00038	1	.99962	36
25	8.62497	298	11.37503	8.62535	299	11.37465	10.00039	0	9.99961	35
26	.62795	296	.37205	.62834	297	.37166	.00039	1	.99961	34
27	.63091	294	.36909	.63131	295	.36869	.00040	0	.99960	33
28	.63385	293	.36615	.63426	292	.36574	.00040	1	.99960	32
29	.63678	290	.36322	.63718	291	.36282	.00041	0	.99959	31
30	8.63968	288	11.36032	8.64009	289	11.35991	10.00041	1	9.99959	30
31	.64256	287	.35744	.64298	287	.35702	.00042	0	.99958	29
32	.64543	284	.35457	.64585	285	.35415	.00042	1	.99958	28
33	.64827	283	.35173	.64870	284	.35130	.00043	1	.99957	27
34	.65110	281	.34890	.65154	281	.34846	.00044	0	.99956	26
35	8.65391	279	11.34609	8.65435	280	11.34565	10.00044	1	9.99956	25
36	.65670	277	.34330	.65715	278	.34285	.00045	0	.99955	24
37	.65947	276	.34053	.65993	276	.34007	.00045	1	.99955	23
38	.66223	274	.33777	.66269	274	.33731	.00046	0	.99954	22
39	.66497	272	.33503	.66543	273	.33457	.00046	1	.99954	21
40	8.66769	270	11.33231	8.66816	271	11.33184	10.00047	1	9.99953	20
41	.67039	269	.32961	.67087	269	.32913	.00048	0	.99952	19
42	.67308	267	.32692	.67356	268	.32644	.00048	1	.99952	18
43	.67575	266	.32425	.67624	266	.32376	.00049	0	.99951	17
44	.67841	263	.32159	.67890	264	.32110	.00049	1	.99951	16
45	8.68104	263	11.31896	8.68154	263	11.31846	10.00050	1	9.99950	15
46	.68367	260	.31633	.68417	261	.31583	.00051	0	.99949	14
47	.68627	259	.31373	.68678	260	.31322	.00051	1	.99949	13
48	.68886	258	.31114	.68938	258	.31062	.00052	0	.99948	12
49	.69144	256	.30856	.69196	257	.30804	.00052	1	.99948	11
50	8.69400	254	11.30600	8.69453	255	11.30547	10.00053	1	9.99947	10
51	.69654	253	.30346	.69708	254	.30292	.00054	0	.99946	9
52	.69907	252	.30093	.69962	252	.30038	.00054	1	.99946	8
53	.70159	250	.29841	.70214	251	.29786	.00055	1	.99945	7
54	.70409	249	.29591	.70465	249	.29535	.00056	0	.99944	6
55	8.70658	247	11.29342	8.70714	248	11.29286	10.00056	1	9.99944	5
56	.70905	246	.29095	.70962	246	.29038	.00057	1	.99943	4
57	.71151	244	.28849	.71208	245	.28792	.00058	0	.99942	3
58	.71395	243	.28605	.71453	244	.28547	.00058	1	.99942	2
59	.71638	242	.28362	.71697	243	.28303	.00059	1	.99941	1
60	8.71880		11.28120	8.71940		11.28060	10.00060	1	9.99940	0
92° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 87°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

3° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 176° ′
0	8.71880	240	11.28120	8.71940	241	11.28060	10.00060	0	9.99940	60
1	.72120	239	.27880	.72181	239	.27819	.00060	1	.99940	59
2	.72359	238	.27641	.72420	239	.27580	.00061	1	.99939	58
3	.72597	237	.27403	.72659	237	.27341	.00062	0	.99938	57
4	.72834	235	.27166	.72896	236	.27104	.00062	1	.99938	56
5	8.73069	234	11.26931	8.73132	234	11.26868	10.00063	1	9.99937	55
6	.73303	232	.26697	.73366	234	.26634	.00064	0	.99936	54
7	.73535	232	.26465	.73600	232	.26400	.00064	1	.99936	53
8	.73767	230	.26233	.73832	231	.26168	.00065	1	.99935	52
9	.73997	229	.26003	.74063	229	.25937	.00066	0	.99934	51
10	8.74226	228	11.25774	8.74292	229	11.25708	10.00066	1	9.99934	50
11	.74454	226	.25546	.74521	227	.25479	.00067	1	.99933	49
12	.74680	226	.25320	.74748	226	.25252	.00068	0	.99932	48
13	.74906	224	.25094	.74974	225	.25026	.00068	1	.99932	47
14	.75130	223	.24870	.75199	224	.24801	.00069	1	.99931	46
15	8.75353	222	11.24647	8.75423	222	11.24577	10.00070	1	9.99930	45
16	.75575	220	.24425	.75645	222	.24355	.00071	0	.99929	44
17	.75795	220	.24205	.75867	220	.24133	.00071	1	.99929	43
18	.76015	219	.23985	.76087	219	.23913	.00072	1	.99928	42
19	.76234	217	.23766	.76306	219	.23694	.00073	1	.99927	41
20	8.76451	216	11.23549	8.76525	217	11.23475	10.00074	0	9.99926	40
21	.76667	216	.23333	.76742	216	.23258	.00074	1	.99926	39
22	.76883	214	.23117	.76958	215	.23042	.00075	1	.99925	38
23	.77097	213	.22903	.77173	214	.22827	.00076	1	.99924	37
24	.77310	212	.22690	.77387	213	.22613	.00077	0	.99923	36
25	8.77522	211	11.22478	8.77600	211	11.22400	10.00077	1	9.99923	35
26	.77733	210	.22267	.77811	211	.22189	.00078	1	.99922	34
27	.77943	209	.22057	.78022	210	.21978	.00079	1	.99921	33
28	.78152	208	.21848	.78232	209	.21768	.00080	0	.99920	32
29	.78360	208	.21640	.78441	208	.21559	.00080	1	.99920	31
30	8.78568	206	11.21432	8.78649	206	11.21351	10.00081	1	9.99919	30
31	.78774	205	.21226	.78855	206	.21145	.00082	1	.99918	29
32	.78979	204	.21021	.79061	205	.20939	.00083	0	.99917	28
33	.79183	203	.20817	.79266	204	.20734	.00083	1	.99917	27
34	.79386	202	.20614	.79470	203	.20530	.00084	1	.99916	26
35	8.79588	201	11.20412	8.79673	202	11.20327	10.00085	1	9.99915	25
36	.79789	201	.20211	.79875	201	.20125	.00086	1	.99914	24
37	.79990	199	.20010	.80076	201	.19924	.00087	0	.99913	23
38	.80189	199	.19811	.80277	199	.19723	.00087	1	.99913	22
39	.80388	197	.19612	.80476	198	.19524	.00088	1	.99912	21
40	8.80585	197	11.19415	8.80674	198	11.19326	10.00089	1	9.99911	20
41	.80782	196	.19218	.80872	196	.19128	.00090	1	.99910	19
42	.80978	195	.19022	.81068	196	.18932	.00091	0	.99909	18
43	.81173	194	.18827	.81264	195	.18736	.00091	1	.99909	17
44	.81367	193	.18633	.81459	194	.18541	.00092	1	.99908	16
45	8.81560	192	11.18440	8.81653	193	11.18347	10.00093	1	9.99907	15
46	.81752	192	.18248	.81846	192	.18154	.00094	1	.99906	14
47	.81944	190	.18056	.82038	192	.17962	.00095	1	.99905	13
48	.82134	190	.17866	.82230	190	.17770	.00096	0	.99904	12
49	.82324	189	.17676	.82420	190	.17580	.00096	1	.99904	11
50	8.82513	188	11.17487	8.82610	189	11.17390	10.00097	1	9.99903	10
51	.82701	187	.17299	.82799	188	.17201	.00098	1	.99902	9
52	.82888	187	.17112	.82987	188	.17013	.00099	1	.99901	8
53	.83075	186	.16925	.83175	186	.16825	.00100	1	.99900	7
54	.83261	185	.16739	.83361	186	.16639	.00101	1	.99899	6
55	8.83446	184	11.16554	8.83547	185	11.16453	10.00102	0	9.99898	5
56	.83630	183	.16370	.83732	184	.16268	.00102	1	.99898	4
57	.83813	183	.16187	.83916	184	.16084	.00103	1	.99897	3
58	.83996	181	.16004	.84100	182	.15900	.00104	1	.99896	2
59	.84177	181	.15823	.84282	182	.15718	.00105	1	.99895	1
60	8.84358		11.15642	8.84464		11.15536	10.00106	1	9.99894	0
93° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 86°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

4° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 175° ′
0	8.84358	181	11.15642	8.84464	182	11.15536	10.00106	1	9.99894	60
1	.84539	179	.15461	.84646	180	.15354	.00107	1	.99893	59
2	.84718	179	.15282	.84826	180	.15174	.00108	1	.99892	58
3	.84897	178	.15103	.85006	179	.14994	.00109	0	.99891	57
4	.85075	177	.14925	.85185	178	.14815	.00109	1	.99891	56
5	8.85252	177	11.14748	8.85363	177	11.14637	10.00110	1	9.99890	55
6	.85429	176	.14571	.85540	177	.14460	.00111	1	.99889	54
7	.85605	175	.14395	.85717	176	.14283	.00112	1	.99888	53
8	.85780	175	.14220	.85893	176	.14107	.00113	1	.99887	52
9	.85955	173	.14045	.86069	174	.13931	.00114	1	.99886	51
10	8.86128	173	11.13872	8.86243	174	11.13757	10.00115	1	9.99885	50
11	.86301	173	.13699	.86417	174	.13583	.00116	1	.99884	49
12	.86474	171	.13526	.86591	172	.13409	.00117	1	.99883	48
13	.86645	171	.13355	.86763	172	.13237	.00118	1	.99882	47
14	.86816	171	.13184	.86935	171	.13065	.00119	1	.99881	46
15	8.86987	169	11.13013	8.87106	171	11.12894	10.00120	1	9.99880	45
16	.87156	169	.12844	.87277	170	.12723	.00121	0	.99879	44
17	.87325	169	.12675	.87447	169	.12553	.00121	1	.99879	43
18	.87494	167	.12506	.87616	169	.12384	.00122	1	.99878	42
19	.87661	168	.12339	.87785	168	.12215	.00123	1	.99877	41
20	8.87829	166	11.12171	8.87953	167	11.12047	10.00124	1	9.99876	40
21	.87995	166	.12005	.88120	167	.11880	.00125	1	.99875	39
22	.88161	165	.11839	.88287	166	.11713	.00126	1	.99874	38
23	.88326	164	.11674	.88453	165	.11547	.00127	1	.99873	37
24	.88490	164	.11510	.88618	165	.11382	.00128	1	.99872	36
25	8.88654	163	11.11346	8.88783	165	11.11217	10.00129	1	9.99871	35
26	.88817	163	.11183	.88948	163	.11052	.00130	1	.99870	34
27	.88980	162	.11020	.89111	163	.10889	.00131	1	.99869	33
28	.89142	162	.10858	.89274	163	.10726	.00132	1	.99868	32
29	.89304	160	.10696	.89437	161	.10563	.00133	1	.99867	31
30	8.89464	161	11.10536	8.89598	162	11.10402	10.00134	1	9.99866	30
31	.89625	159	.10375	.89760	160	.10240	.00135	1	.99865	29
32	.89784	159	.10216	.89920	160	.10080	.00136	1	.99864	28
33	.89943	159	.10057	.90080	160	.09920	.00137	1	.99863	27
34	.90102	158	.09898	.90240	159	.09760	.00138	1	.99862	26
35	8.90260	157	11.09740	8.90399	158	11.09601	10.00139	1	9.99861	25
36	.90417	157	.09583	.90557	158	.09443	.00140	1	.99860	24
37	.90574	156	.09426	.90715	157	.09285	.00141	1	.99859	23
38	.90730	155	.09270	.90872	157	.09128	.00142	1	.99858	22
39	.90885	155	.09115	.91029	156	.08971	.00143	1	.99857	21
40	8.91040	155	11.08960	8.91185	155	11.08815	10.00144	1	9.99856	20
41	.91195	154	.08805	.91340	155	.08660	.00145	1	.99855	19
42	.91349	153	.08651	.91495	155	.08505	.00146	1	.99854	18
43	.91502	153	.08498	.91650	153	.08350	.00147	1	.99853	17
44	.91655	152	.08345	.91803	154	.08197	.00148	1	.99852	16
45	8.91807	152	11.08193	8.91957	153	11.08043	10.00149	1	9.99851	15
46	.91959	151	.08041	.92110	152	.07890	.00150	2	.99850	14
47	.92110	151	.07890	.92262	152	.07738	.00152	1	.99848	13
48	.92261	150	.07739	.92414	151	.07586	.00153	1	.99847	12
49	.92411	150	.07589	.92565	151	.07435	.00154	1	.99846	11
50	8.92561	149	11.07439	8.92716	150	11.07284	10.00155	1	9.99845	10
51	.92710	149	.07290	.92866	150	.07134	.00156	1	.99844	9
52	.92859	148	.07141	.93016	149	.06984	.00157	1	.99843	8
53	.93007	147	.06993	.93165	148	.06835	.00158	1	.99842	7
54	.93154	147	.06846	.93313	149	.06687	.00159	1	.99841	6
55	8.93301	147	11.06699	8.93462	147	11.06538	10.00160	1	9.99840	5
56	.93448	146	.06552	.93609	147	.06391	.00161	1	.99839	4
57	.93594	146	.06406	.93756	147	.06244	.00162	1	.99838	3
58	.93740	145	.06260	.93903	146	.06097	.00163	1	.99837	2
59	.93885	145	.06115	.94049	146	.05951	.00164	1	.99836	1
60	8.94030		11.05970	8.94195		11.05805	10.00166	2	9.99834	0
94° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 85°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

5° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 174° ′
0	8.94030	144	11.05970	8.94195	145	11.05805	10.00166	1	9.99834	60
1	.94174	143	.05826	.94340	145	.05660	.00167	1	.99833	59
2	.94317	144	.05683	.94485	145	.05515	.00168	1	.99832	58
3	.94461	142	.05539	.94630	143	.05370	.00169	1	.99831	57
4	.94603	143	.05397	.94773	144	.05227	.00170	1	.99830	56
5	8.94746	141	11.05254	8.94917	143	11.05083	10.00171	1	9.99829	55
6	.94887	142	.05113	.95060	142	.04940	.00172	1	.99828	54
7	.95029	141	.04971	.95202	142	.04798	.00173	2	.99827	53
8	.95170	140	.04830	.95344	142	.04656	.00175	1	.99825	52
9	.95310	140	.04690	.95486	141	.04514	.00176	1	.99824	51
10	8.95450	139	11.04550	8.95627	140	11.04373	10.00177	1	9.99823	50
11	.95589	139	.04411	.95767	141	.04233	.00178	1	.99822	49
12	.95728	139	.04272	.95908	139	.04092	.00179	1	.99821	48
13	.95867	138	.04133	.96047	140	.03953	.00180	1	.99820	47
14	.96005	138	.03995	.96187	138	.03813	.00181	2	.99819	46
15	8.96143	137	11.03857	8.96325	139	11.03675	10.00183	1	9.99817	45
16	.96280	137	.03720	.96464	138	.03536	.00184	1	.99816	44
17	.96417	136	.03583	.96602	137	.03398	.00185	1	.99815	43
18	.96553	136	.03447	.96739	138	.03261	.00186	1	.99814	42
19	.96689	136	.03311	.96877	136	.03123	.00187	1	.99813	41
20	8.96825	135	11.03175	8.97013	137	11.02987	10.00188	2	9.99812	40
21	.96960	135	.03040	.97150	135	.02850	.00190	1	.99810	39
22	.97095	134	.02905	.97285	136	.02715	.00191	1	.99809	38
23	.97229	134	.02771	.97421	135	.02579	.00192	1	.99808	37
24	.97363	133	.02637	.97556	135	.02444	.00193	1	.99807	36
25	8.97496	133	11.02504	8.97691	134	11.02309	10.00194	2	9.99806	35
26	.97629	133	.02371	.97825	134	.02175	.00196	1	.99804	34
27	.97762	132	.02238	.97959	133	.02041	.00197	1	.99803	33
28	.97894	132	.02106	.98092	133	.01908	.00198	1	.99802	32
29	.98026	131	.01974	.98225	133	.01775	.00199	1	.99801	31
30	8.98157	131	11.01843	8.98358	132	11.01642	10.00200	2	9.99800	30
31	.98288	131	.01712	.98490	132	.01510	.00202	1	.99798	29
32	.98419	130	.01581	.98622	131	.01378	.00203	1	.99797	28
33	.98549	130	.01451	.98753	131	.01247	.00204	1	.99796	27
34	.98679	129	.01321	.98884	131	.01116	.00205	2	.99795	26
35	8.98808	129	11.01192	8.99015	130	11.00985	10.00207	1	9.99793	25
36	.98937	129	.01063	.99145	130	.00855	.00208	1	.99792	24
37	.99066	128	.00934	.99275	130	.00725	.00209	1	.99791	23
38	.99194	128	.00806	.99405	129	.00595	.00210	2	.99790	22
39	.99322	128	.00678	.99534	128	.00466	.00212	1	.99788	21
40	8.99450	127	11.00550	8.99662	129	11.00338	10.00213	1	9.99787	20
41	.99577	127	.00423	.99791	128	.00209	.00214	1	.99786	19
42	.99704	126	.00296	8.99919	127	.00081	.00215	2	.99785	18
43	.99830	126	.00170	9.00046	128	.99954	.00217	1	.99783	17
44	8.99956	126	.00044	.00174	127	.99826	.00218	1	.99782	16
45	9.00082	125	10.99918	9.00301	126	10.99699	10.00219	1	9.99781	15
46	.00207	125	.99793	.00427	126	.99573	.00220	2	.99780	14
47	.00332	124	.99668	.00553	126	.99447	.00222	1	.99778	13
48	.00456	125	.99544	.00679	126	.99321	.00223	1	.99777	12
49	.00581	123	.99419	.00805	125	.99195	.00224	1	.99776	11
50	9.00704	124	10.99296	9.00930	125	10.99070	10.00225	2	9.99775	10
51	.00828	123	.99172	.01055	124	.98945	.00227	1	.99773	9
52	.00951	123	.99049	.01179	124	.98821	.00228	1	.99772	8
53	.01074	122	.98926	.01303	124	.98697	.00229	2	.99771	7
54	.01196	122	.98804	.01427	123	.98573	.00231	1	.99769	6
55	9.01318	122	10.98682	9.01550	123	10.98450	10.00232	1	9.99768	5
56	.01440	121	.98560	.01673	123	.98327	.00233	2	.99767	4
57	.01561	121	.98439	.01796	122	.98204	.00235	1	.99765	3
58	.01682	121	.98318	.01918	122	.98082	.00236	1	.99764	2
59	.01803	120	.98197	.02040	122	.97960	.00237	2	.99763	1
60	9.01923		10.98077	9.02162		10.97838	10.00239		9.99761	0
95° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 84°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

6° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 173° ′
0	9.01923	120	10.98077	9.02162	121	10.97838	10.00239	1	9.99761	60
1	.02043	120	.97957	.02283	121	.97717	.00240	1	.99760	59
2	.02163	120	.97837	.02404	121	.97596	.00241	2	.99759	58
3	.02283	119	.97717	.02525	120	.97475	.00243	1	.99757	57
4	.02402	118	.97598	.02645	121	.97355	.00244	1	.99756	56
5	9.02520	119	10.97480	9.02766	119	10.97234	10.00245	2	9.99755	55
6	.02639	118	.97361	.02885	120	.97115	.00247	1	.99753	54
7	.02757	117	.97243	.03005	119	.96995	.00248	1	.99752	53
8	.02874	118	.97126	.03124	118	.96876	.00249	2	.99751	52
9	.02992	117	.97008	.03242	119	.96758	.00251	1	.99749	51
10	9.03109	117	10.96891	9.03361	118	10.96639	10.00252	1	9.99748	50
11	.03226	116	.96774	.03479	118	.96521	.00253	2	.99747	49
12	.03342	116	.96658	.03597	117	.96403	.00255	1	.99745	48
13	.03458	116	.96542	.03714	118	.96286	.00256	2	.99744	47
14	.03574	116	.96426	.03832	116	.96168	.00258	1	.99742	46
15	9.03690	115	10.96310	9.03948	117	10.96052	10.00259	1	9.99741	45
16	.03805	115	.96195	.04065	116	.95935	.00260	2	.99740	44
17	.03920	114	.96080	.04181	116	.95819	.00262	1	.99738	43
18	.04034	115	.95966	.04297	116	.95703	.00263	1	.99737	42
19	.04149	113	.95851	.04413	115	.95587	.00264	2	.99736	41
20	9.04262	114	10.95738	9.04528	115	10.95472	10.00266	1	9.99734	40
21	.04376	114	.95624	.04643	115	.95357	.00267	2	.99733	39
22	.04490	113	.95510	.04758	115	.95242	.00269	1	.99731	38
23	.04603	112	.95397	.04873	114	.95127	.00270	2	.99730	37
24	.04715	113	.95285	.04987	114	.95013	.00272	1	.99728	36
25	9.04828	112	10.95172	9.05101	113	10.94899	10.00273	1	9.99727	35
26	.04940	112	.95060	.05214	114	.94786	.00274	2	.99726	34
27	.05052	112	.94948	.05328	113	.94672	.00276	1	.99724	33
28	.05164	111	.94836	.05441	112	.94559	.00277	2	.99723	32
29	.05275	111	.94725	.05553	113	.94447	.00279	1	.99721	31
30	9.05386	111	10.94614	9.05666	112	10.94334	10.00280	2	9.99720	30
31	.05497	110	.94503	.05778	112	.94222	.00282	1	.99718	29
32	.05607	110	.94393	.05890	112	.94110	.00283	1	.99717	28
33	.05717	110	.94283	.06002	111	.93998	.00284	2	.99716	27
34	.05827	110	.94173	.06113	111	.93887	.00286	1	.99714	26
35	9.05937	109	10.94063	9.06224	111	10.93776	10.00287	2	9.99713	25
36	.06046	109	.93954	.06335	110	.93665	.00289	1	.99711	24
37	.06155	109	.93845	.06445	111	.93555	.00290	2	.99710	23
38	.06264	108	.93736	.06556	110	.93444	.00292	1	.99708	22
39	.06372	109	.93628	.06666	109	.93334	.00293	2	.99707	21
40	9.06481	108	10.93519	9.06775	110	10.93225	10.00295	1	9.99705	20
41	.06589	107	.93411	.06885	109	.93115	.00296	2	.99704	19
42	.06696	108	.93304	.06994	109	.93006	.00298	1	.99702	18
43	.06804	107	.93196	.07103	108	.92897	.00299	2	.99701	17
44	.06911	107	.93089	.07211	109	.92789	.00301	1	.99699	16
45	9.07018	106	10.92982	9.07320	108	10.92680	10.00302	2	9.99698	15
46	.07124	107	.92876	.07428	108	.92572	.00304	1	.99696	14
47	.07231	106	.92769	.07536	107	.92464	.00305	2	.99695	13
48	.07337	105	.92663	.07643	108	.92357	.00307	1	.99693	12
49	.07442	106	.92558	.07751	107	.92249	.00308	2	.99692	11
50	9.07548	105	10.92452	9.07858	106	10.92142	10.00310	1	9.99690	10
51	.07653	105	.92347	.07964	107	.92036	.00311	2	.99689	9
52	.07758	105	.92242	.08071	106	.91929	.00313	1	.99687	8
53	.07863	105	.92137	.08177	106	.91823	.00314	2	.99686	7
54	.07968	104	.92032	.08283	106	.91717	.00316	1	.99684	6
55	9.08072	104	10.91928	9.08389	106	10.91611	10.00317	2	9.99683	5
56	.08176	104	.91824	.08495	105	.91505	.00319	1	.99681	4
57	.08280	103	.91720	.08600	105	.91400	.00320	2	.99680	3
58	.08383	103	.91617	.08705	105	.91295	.00322	1	.99678	2
59	.08486	103	.91514	.08810	104	.91190	.00323	2	.99677	1
60	9.08589		10.91411	9.08914		10.91086	10.00325		9.99675	0
↑ 96° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← ↑ 83°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

7° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 172° ′
0	9.08589	103	10.91411	9.08914	105	10.91086	10.00325	1	9.99675	60
1	.08692	103	.91308	.09019	104	.90981	.00326	2	.99674	59
2	.08795	102	.91205	.09123	104	.90877	.00328	2	.99672	58
3	.08897	102	.91103	.09227	103	.90773	.00330	1	.99670	57
4	.08999	102	.91001	.09330	104	.90670	.00331	2	.99669	56
5	9.09101	101	10.90899	9.09434	103	10.90566	10.00333	1	9.99667	55
6	.09202	102	.90798	.09537	103	.90463	.00334	2	.99666	54
7	.09304	101	.90696	.09640	102	.90360	.00336	1	.99664	53
8	.09405	101	.90595	.09742	103	.90258	.00337	2	.99663	52
9	.09506	100	.90494	.09845	102	.90155	.00339	2	.99661	51
10	9.09606	101	10.90394	9.09947	102	10.90053	10.00341	1	9.99659	50
11	.09707	100	.90293	.10049	101	.89951	.00342	2	.99658	49
12	.09807	100	.90193	.10150	102	.89850	.00344	1	.99656	48
13	.09907	99	.90093	.10252	101	.89748	.00345	2	.99655	47
14	.10006	100	.89994	.10353	101	.89647	.00347	2	.99653	46
15	9.10106	99	10.89894	9.10454	101	10.89546	10.00349	1	9.99651	45
16	.10205	99	.89795	.10555	101	.89445	.00350	2	.99650	44
17	.10304	98	.89696	.10656	100	.89344	.00352	1	.99648	43
18	.10402	99	.89598	.10756	100	.89244	.00353	2	.99647	42
19	.10501	98	.89499	.10856	100	.89144	.00355	2	.99645	41
20	9.10599	98	10.89401	9.10956	100	10.89044	10.00357	1	9.99643	40
21	.10697	98	.89303	.11056	99	.88944	.00358	2	.99642	39
22	.10795	98	.89205	.11155	99	.88845	.00360	2	.99640	38
23	.10893	97	.89107	.11254	99	.88746	.00362	1	.99638	37
24	.10990	97	.89010	.11353	99	.88647	.00363	2	.99637	36
25	9.11087	97	10.88913	9.11452	99	10.88548	10.00365	2	9.99635	35
26	.11184	97	.88816	.11551	98	.88449	.00367	1	.99633	34
27	.11281	96	.88719	.11649	98	.88351	.00368	2	.99632	33
28	.11377	97	.88623	.11747	98	.88253	.00370	1	.99630	32
29	.11474	96	.88526	.11845	98	.88155	.00371	2	.99629	31
30	9.11570	96	10.88430	9.11943	97	10.88057	10.00373	2	9.99627	30
31	.11666	95	.88334	.12040	98	.87960	.00375	1	.99625	29
32	.11761	96	.88239	.12138	97	.87862	.00376	2	.99624	28
33	.11857	95	.88143	.12235	97	.87765	.00378	2	.99622	27
34	.11952	95	.88048	.12332	96	.87668	.00380	2	.99620	26
35	9.12047	95	10.87953	9.12428	97	10.87572	10.00382	1	9.99618	25
36	.12142	94	.87858	.12525	96	.87475	.00383	2	.99617	24
37	.12236	95	.87764	.12621	96	.87379	.00385	2	.99615	23
38	.12331	94	.87669	.12717	96	.87283	.00387	1	.99613	22
39	.12425	94	.87575	.12813	96	.87187	.00388	2	.99612	21
40	9.12519	93	10.87481	9.12909	95	10.87091	10.00390	2	9.99610	20
41	.12612	94	.87388	.13004	95	.86996	.00392	1	.99608	19
42	.12706	93	.87294	.13099	95	.86901	.00393	2	.99607	18
43	.12799	93	.87201	.13194	95	.86806	.00395	2	.99605	17
44	.12892	93	.87108	.13289	95	.86711	.00397	2	.99603	16
45	9.12985	93	10.87015	9.13384	94	10.86616	10.00399	1	9.99601	15
46	.13078	93	.86922	.13478	95	.86522	.00400	2	.99600	14
47	.13171	92	.86829	.13573	94	.86427	.00402	2	.99598	13
48	.13263	92	.86737	.13667	94	.86333	.00404	1	.99596	12
49	.13355	92	.86645	.13761	93	.86239	.00405	2	.99595	11
50	9.13447	92	10.86553	9.13854	94	10.86146	10.00407	2	9.99593	10
51	.13539	91	.86461	.13948	93	.86052	.00409	2	.99591	9
52	.13630	92	.86370	.14041	93	.85959	.00411	1	.99589	8
53	.13722	91	.86278	.14134	93	.85866	.00412	2	.99588	7
54	.13813	91	.86187	.14227	93	.85773	.00414	2	.99586	6
55	9.13904	90	10.86096	9.14320	92	10.85680	10.00416	2	9.99584	5
56	.13994	91	.86006	.14412	92	.85588	.00418	2	.99582	4
57	.14085	90	.85915	.14504	93	.85496	.00419	1	.99581	3
58	.14175	91	.85825	.14597	91	.85403	.00421	2	.99579	2
59	.14266	90	.85734	.14688	92	.85312	.00423	2	.99577	1
60	9.14356		10.85644	9.14780		10.85220	10.00425		9.99575	0
↑ 97° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← ↑ 82°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

8° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 171° ′
0	9.14356	89	10.85644	9.14780	92	10.85220	10.00425	1	9.99575	60
1	.14445	90	.85555	.14872	91	.85128	.00426	2	.99574	59
2	.14535	89	.85465	.14963	91	.85037	.00428	2	.99572	58
3	.14624	90	.85376	.15054	91	.84946	.00430	2	.99570	57
4	.14714	89	.85286	.15145	91	.84855	.00432	2	.99568	56
5	9.14803	88	10.85197	9.15236	91	10.84764	10.00434	1	9.99566	55
6	.14891	89	.85109	.15327	90	.84673	.00435	2	.99565	54
7	.14980	89	.85020	.15417	91	.84583	.00437	2	.99563	53
8	.15069	88	.84931	.15508	90	.84492	.00439	2	.99561	52
9	.15157	88	.84843	.15598	90	.84402	.00441	2	.99559	51
10	9.15245	88	10.84755	9.15688	89	10.84312	10.00443	1	9.99557	50
11	.15333	88	.84667	.15777	90	.84223	.00444	2	.99556	49
12	.15421	87	.84579	.15867	89	.84133	.00446	2	.99554	48
13	.15508	88	.84492	.15956	90	.84044	.00448	2	.99552	47
14	.15596	87	.84404	.16046	89	.83954	.00450	2	.99550	46
15	9.15683	87	10.84317	9.16135	89	10.83865	10.00452	2	9.99548	45
16	.15770	87	.84230	.16224	88	.83776	.00454	1	.99546	44
17	.15857	87	.84143	.16312	89	.83688	.00455	2	.99545	43
18	.15944	86	.84056	.16401	88	.83599	.00457	2	.99543	42
19	.16030	86	.83970	.16489	88	.83511	.00459	2	.99541	41
20	9.16116	87	10.83884	9.16577	88	10.83423	10.00461	2	9.99539	40
21	.16203	86	.83797	.16665	88	.83335	.00463	2	.99537	39
22	.16289	85	.83711	.16753	88	.83247	.00465	2	.99535	38
23	.16374	86	.83626	.16841	87	.83159	.00467	1	.99533	37
24	.16460	85	.83540	.16928	88	.83072	.00468	2	.99532	36
25	9.16545	86	10.83455	9.17016	87	10.82984	10.00470	2	9.99530	35
26	.16631	85	.83369	.17103	87	.82897	.00472	2	.99528	34
27	.16716	85	.83284	.17190	87	.82810	.00474	2	.99526	33
28	.16801	85	.83199	.17277	86	.82723	.00476	2	.99524	32
29	.16886	84	.83114	.17363	87	.82637	.00478	2	.99522	31
30	9.16970	85	10.83030	9.17450	86	10.82550	10.00480	2	9.99520	30
31	.17055	84	.82945	.17536	86	.82464	.00482	1	.99518	29
32	.17139	84	.82861	.17622	86	.82378	.00483	2	.99517	28
33	.17223	84	.82777	.17708	86	.82292	.00485	2	.99515	27
34	.17307	84	.82693	.17794	86	.82206	.00487	2	.99513	26
35	9.17391	83	10.82609	9.17880	85	10.82120	10.00489	2	9.99511	25
36	.17474	84	.82526	.17965	86	.82035	.00491	2	.99509	24
37	.17558	83	.82442	.18051	85	.81949	.00493	2	.99507	23
38	.17641	83	.82359	.18136	85	.81864	.00495	2	.99505	22
39	.17724	83	.82276	.18221	85	.81779	.00497	2	.99503	21
40	9.17807	83	10.82193	9.18306	85	10.81694	10.00499	2	9.99501	20
41	.17890	83	.82110	.18391	84	.81609	.00501	2	.99499	19
42	.17973	82	.82027	.18475	85	.81525	.00503	2	.99497	18
43	.18055	82	.81945	.18560	84	.81440	.00505	1	.99495	17
44	.18137	83	.81863	.18644	84	.81356	.00506	2	.99494	16
45	9.18220	82	10.81780	9.18728	84	10.81272	10.00508	2	9.99492	15
46	.18302	81	.81698	.18812	84	.81188	.00510	2	.99490	14
47	.18383	82	.81617	.18896	83	.81104	.00512	2	.99488	13
48	.18465	82	.81535	.18979	84	.81021	.00514	2	.99486	12
49	.18547	81	.81453	.19063	83	.80937	.00516	2	.99484	11
50	9.18628	81	10.81372	9.19146	83	10.80854	10.00518	2	9.99482	10
51	.18709	81	.81291	.19229	83	.80771	.00520	2	.99480	9
52	.18790	81	.81210	.19312	83	.80688	.00522	2	.99478	8
53	.18871	81	.81129	.19395	83	.80605	.00524	2	.99476	7
54	.18952	81	.81048	.19478	83	.80522	.00526	2	.99474	6
55	9.19033	80	10.80967	9.19561	82	10.80439	10.00528	2	9.99472	5
56	.19113	80	.80887	.19643	82	.80357	.00530	2	.99470	4
57	.19193	80	.80807	.19725	82	.80275	.00532	2	.99468	3
58	.19273	80	.80727	.19807	82	.80193	.00534	2	.99466	2
59	.19353	80	.80647	.19889	82	.80111	.00536	2	.99464	1
60	9.19433	80	10.80567	9.19971	82	10.80029	10.00538	2	9.99462	0
98° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 81°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

9° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 170° ′
0	9.19433	80	10.80567	9.19971	82	10.80029	10.00538	2	9.99462	60
1	.19513	79	.80487	.20053	81	.79947	.00540	2	.99460	59
2	.19592	80	.80408	.20134	82	.79866	.00542	2	.99458	58
3	.19672	79	.80328	.20216	81	.79784	.00544	2	.99456	57
4	.19751	79	.80249	.20297	81	.79703	.00546	2	.99454	56
5	9.19830	79	10.80170	9.20378	81	10.79622	10.00548	2	9.99452	55
6	.19909	79	.80091	.20459	81	.79541	.00550	2	.99450	54
7	.19988	79	.80012	.20540	81	.79460	.00552	2	.99448	53
8	.20067	78	.79933	.20621	80	.79379	.00554	2	.99446	52
9	.20145	78	.79855	.20701	81	.79299	.00556	2	.99444	51
10	9.20223	79	10.79777	9.20782	80	10.79218	10.00558	2	9.99442	50
11	.20302	78	.79698	.20862	80	.79138	.00560	2	.99440	49
12	.20380	78	.79620	.20942	80	.79058	.00562	2	.99438	48
13	.20458	77	.79542	.21022	80	.78978	.00564	2	.99436	47
14	.20535	78	.79465	.21102	80	.78898	.00566	2	.99434	46
15	9.20613	78	10.79387	9.21182	79	10.78818	10.00568	3	9.99432	45
16	.20691	77	.79309	.21261	80	.78739	.00571	2	.99429	44
17	.20768	77	.79232	.21341	79	.78659	.00573	2	.99427	43
18	.20845	77	.79155	.21420	79	.78580	.00575	2	.99425	42
19	.20922	77	.79078	.21499	79	.78501	.00577	2	.99423	41
20	9.20999	77	10.79001	9.21578	79	10.78422	10.00579	2	9.99421	40
21	.21076	77	.78924	.21657	79	.78343	.00581	2	.99419	39
22	.21153	76	.78847	.21736	78	.78264	.00583	2	.99417	38
23	.21229	77	.78771	.21814	79	.78186	.00585	2	.99415	37
24	.21306	76	.78694	.21893	78	.78107	.00587	2	.99413	36
25	9.21382	76	10.78618	9.21971	78	10.78029	10.00589	2	9.99411	35
26	.21458	76	.78542	.22049	78	.77951	.00591	2	.99409	34
27	.21534	76	.78466	.22127	78	.77873	.00593	3	.99407	33
28	.21610	75	.78390	.22205	78	.77795	.00596	2	.99404	32
29	.21685	76	.78315	.22283	78	.77717	.00598	2	.99402	31
30	9.21761	75	10.78239	9.22361	77	10.77639	10.00600	2	9.99400	30
31	.21836	76	.78164	.22438	78	.77562	.00602	2	.99398	29
32	.21912	75	.78088	.22516	77	.77484	.00604	2	.99396	28
33	.21987	75	.78013	.22593	77	.77407	.00606	2	.99394	27
34	.22062	75	.77938	.22670	77	.77330	.00608	2	.99392	26
35	9.22137	74	10.77863	9.22747	77	10.77253	10.00610	2	9.99390	25
36	.22211	75	.77789	.22824	77	.77176	.00612	3	.99388	24
37	.22286	75	.77714	.22901	76	.77099	.00615	2	.99385	23
38	.22361	74	.77639	.22977	77	.77023	.00617	2	.99383	22
39	.22435	74	.77565	.23054	76	.76946	.00619	2	.99381	21
40	9.22509	74	10.77491	9.23130	76	10.76870	10.00621	2	9.99379	20
41	.22583	74	.77417	.23206	77	.76794	.00623	2	.99377	19
42	.22657	74	.77343	.23283	76	.76717	.00625	3	.99375	18
43	.22731	74	.77269	.23359	76	.76641	.00628	2	.99372	17
44	.22805	73	.77195	.23435	75	.76565	.00630	2	.99370	16
45	9.22878	74	10.77122	9.23510	76	10.76490	10.00632	2	9.99368	15
46	.22952	73	.77048	.23586	75	.76414	.00634	2	.99366	14
47	.23025	73	.76975	.23661	76	.76339	.00636	2	.99364	13
48	.23098	73	.76902	.23737	75	.76263	.00638	3	.99362	12
49	.23171	73	.76829	.23812	75	.76188	.00641	2	.99359	11
50	9.23244	73	10.76756	9.23887	75	10.76113	10.00643	2	9.99357	10
51	.23317	73	.76683	.23962	75	.76038	.00645	2	.99355	9
52	.23390	72	.76610	.24037	75	.75963	.00647	2	.99353	8
53	.23462	73	.76538	.24112	74	.75888	.00649	3	.99351	7
54	.23535	72	.76465	.24186	75	.75814	.00652	2	.99348	6
55	9.23607	72	10.76393	9.24261	74	10.75739	10.00654	2	9.99346	5
56	.23679	73	.76321	.24335	75	.75665	.00656	2	.99344	4
57	.23752	71	.76248	.24410	74	.75590	.00658	2	.99342	3
58	.23823	72	.76177	.24484	74	.75516	.00660	3	.99340	2
59	.23895	72	.76105	.24558	74	.75442	.00663	2	.99337	1
60	9.23967	72	10.76033	9.24632	74	10.75368	10.00665	2	9.99335	0
99° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 80°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

10° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 169° ′
0	9.23967	72	10.76033	9.24632	74	10.75368	10.00665	2	9.99335	60
1	.24039	71	.75961	.24706	73	.75294	.00667	2	.99333	59
2	.24110	71	.75890	.24779	74	.75221	.00669	3	.99331	58
3	.24181	72	.75819	.24853	73	.75147	.00672	2	.99328	57
4	.24253	71	.75747	.24926	74	.75074	.00674	2	.99326	56
5	9.24324	71	10.75676	9.25000	73	10.75000	10.00676	2	9.99324	55
6	.24395	71	.75605	.25073	73	.74927	.00678	3	.99322	54
7	.24466	70	.75534	.25146	73	.74854	.00681	2	.99319	53
8	.24536	71	.75464	.25219	73	.74781	.00683	2	.99317	52
9	.24607	70	.75393	.25292	73	.74708	.00685	2	.99315	51
10	9.24677	71	10.75323	9.25365	72	10.74635	10.00687	3	9.99313	50
11	.24748	70	.75252	.25437	73	.74563	.00690	2	.99310	49
12	.24818	70	.75182	.25510	72	.74490	.00692	2	.99308	48
13	.24888	70	.75112	.25582	73	.74418	.00694	2	.99306	47
14	.24958	70	.75042	.25655	72	.74345	.00696	3	.99304	46
15	9.25028	70	10.74972	9.25727	72	10.74273	10.00699	2	9.99301	45
16	.25098	70	.74902	.25799	72	.74201	.00701	2	.99299	44
17	.25168	69	.74832	.25871	72	.74129	.00703	3	.99297	43
18	.25237	70	.74763	.25943	72	.74057	.00706	2	.99294	42
19	.25307	69	.74693	.26015	71	.73985	.00708	2	.99292	41
20	9.25376	69	10.74624	9.26086	72	10.73914	10.00710	2	9.99290	40
21	.25445	69	.74555	.26158	71	.73842	.00712	3	.99288	39
22	.25514	69	.74486	.26229	72	.73771	.00715	2	.99285	38
23	.25583	69	.74417	.26301	71	.73699	.00717	2	.99283	37
24	.25652	69	.74348	.26372	71	.73628	.00719	3	.99281	36
25	9.25721	69	10.74279	9.26443	71	10.73557	10.00722	2	9.99278	35
26	.25790	68	.74210	.26514	71	.73486	.00724	2	.99276	34
27	.25858	69	.74142	.26585	70	.73415	.00726	3	.99274	33
28	.25927	68	.74073	.26655	71	.73345	.00729	2	.99271	32
29	.25995	68	.74005	.26726	71	.73274	.00731	2	.99269	31
30	9.26063	68	10.73937	9.26797	70	10.73203	10.00733	3	9.99267	30
31	.26131	68	.73869	.26867	70	.73133	.00736	2	.99264	29
32	.26199	68	.73801	.26937	71	.73063	.00738	2	.99262	28
33	.26267	68	.73733	.27008	70	.72992	.00740	3	.99260	27
34	.26335	68	.73665	.27078	70	.72922	.00743	2	.99257	26
35	9.26403	67	10.73597	9.27148	70	10.72852	10.00745	3	9.99255	25
36	.26470	68	.73530	.27218	70	.72782	.00748	2	.99252	24
37	.26538	67	.73462	.27288	70	.72712	.00750	2	.99250	23
38	.26605	67	.73395	.27357	69	.72643	.00752	3	.99248	22
39	.26672	67	.73328	.27427	70	.72573	.00755	2	.99245	21
40	9.26739	67	10.73261	9.27496	69	10.72504	10.00757	2	9.99243	20
41	.26806	67	.73194	.27566	70	.72434	.00759	3	.99241	19
42	.26873	67	.73127	.27635	69	.72365	.00762	2	.99238	18
43	.26940	67	.73060	.27704	69	.72296	.00764	3	.99236	17
44	.27007	66	.72993	.27773	69	.72227	.00767	2	.99233	16
45	9.27073	67	10.72927	9.27842	69	10.72158	10.00769	2	9.99231	15
46	.27140	66	.72860	.27911	69	.72089	.00771	3	.99229	14
47	.27206	67	.72794	.27980	69	.72020	.00774	2	.99226	13
48	.27273	66	.72727	.28049	68	.71951	.00776	3	.99224	12
49	.27339	66	.72661	.28117	69	.71883	.00779	2	.99221	11
50	9.27405	66	10.72595	9.28186	68	10.71814	10.00781	2	9.99219	10
51	.27471	66	.72529	.28254	69	.71746	.00783	3	.99217	9
52	.27537	65	.72463	.28323	68	.71677	.00786	2	.99214	8
53	.27602	66	.72398	.28391	68	.71609	.00788	3	.99212	7
54	.27668	66	.72332	.28459	68	.71541	.00791	2	.99209	6
55	9.27734	65	10.72266	9.28527	68	10.71473	10.00793	3	9.99207	5
56	.27799	65	.72201	.28595	67	.71405	.00796	2	.99204	4
57	.27864	66	.72136	.28662	68	.71338	.00798	2	.99202	3
58	.27930	65	.72070	.28730	68	.71270	.00800	3	.99200	2
59	.27995	65	.72005	.28798	67	.71202	.00803	2	.99197	1
60	9.28060		10.71940	9.28865		10.71135	10.00805		9.99195	0
100° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 79°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

11° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 168° ′
0	9.28060	65	10.71940	9.28865	68	10.71135	10.00805	3	9.99195	60
1	.28125	65	.71875	.28933	67	.71067	.00808	2	.99192	59
2	.28190	64	.71810	.29000	67	.71000	.00810	3	.99190	58
3	.28254	65	.71746	.29067	67	.70933	.00813	2	.99187	57
4	.28319	65	.71681	.29134	67	.70866	.00815	3	.99185	56
5	9.28384	64	10.71616	9.29201	67	10.70799	10.00818	2	9.99182	55
6	.28448	64	.71552	.29268	67	.70732	.00820	3	.99180	54
7	.28512	65	.71488	.29335	67	.70665	.00823	2	.99177	53
8	.28577	64	.71423	.29402	66	.70598	.00825	3	.99175	52
9	.28641	64	.71359	.29468	67	.70532	.00828	2	.99172	51
10	9.28705	64	10.71295	9.29535	66	10.70465	10.00830	3	9.99170	50
11	.28769	64	.71231	.29601	67	.70399	.00833	2	.99167	49
12	.28833	63	.71167	.29668	66	.70332	.00835	3	.99165	48
13	.28896	64	.71104	.29734	66	.70266	.00838	2	.99162	47
14	.28960	64	.71040	.29800	66	.70200	.00840	3	.99160	46
15	9.29024	63	10.70976	9.29866	66	10.70134	10.00843	2	9.99157	45
16	.29087	63	.70913	.29932	66	.70068	.00845	3	.99155	44
17	.29150	64	.70850	.29998	66	.70002	.00848	2	.99152	43
18	.29214	63	.70786	.30064	66	.69936	.00850	3	.99150	42
19	.29277	63	.70723	.30130	65	.69870	.00853	2	.99147	41
20	9.29340	63	10.70660	9.30195	66	10.69805	10.00855	3	9.99145	40
21	.29403	63	.70597	.30261	65	.69739	.00858	2	.99142	39
22	.29466	63	.70534	.30326	65	.69674	.00860	3	.99140	38
23	.29529	62	.70471	.30391	66	.69609	.00863	2	.99137	37
24	.29591	63	.70409	.30457	65	.69543	.00865	3	.99135	36
25	9.29654	62	10.70346	9.30522	65	10.69478	10.00868	2	9.99132	35
26	.29716	63	.70284	.30587	65	.69413	.00870	3	.99130	34
27	.29779	62	.70221	.30652	65	.69348	.00873	3	.99127	33
28	.29841	62	.70159	.30717	65	.69283	.00876	2	.99124	32
29	.29903	63	.70097	.30782	64	.69218	.00878	3	.99122	31
30	9.29966	62	10.70034	9.30846	65	10.69154	10.00881	2	9.99119	30
31	.30028	62	.69972	.30911	64	.69089	.00883	3	.99117	29
32	.30090	61	.69910	.30975	65	.69025	.00886	2	.99114	28
33	.30151	62	.69849	.31040	64	.68960	.00888	3	.99112	27
34	.30213	62	.69787	.31104	64	.68896	.00891	3	.99109	26
35	9.30275	61	10.69725	9.31168	65	10.68832	10.00894	2	9.99106	25
36	.30336	62	.69664	.31233	64	.68767	.00896	3	.99104	24
37	.30398	61	.69602	.31297	64	.68703	.00899	2	.99101	23
38	.30459	62	.69541	.31361	64	.68639	.00901	3	.99099	22
39	.30521	61	.69479	.31425	64	.68575	.00904	3	.99096	21
40	9.30582	61	10.69418	9.31489	63	10.68511	10.00907	2	9.99093	20
41	.30643	61	.69357	.31552	64	.68448	.00909	3	.99091	19
42	.30704	61	.69296	.31616	63	.68384	.00912	2	.99088	18
43	.30765	61	.69235	.31679	64	.68321	.00914	3	.99086	17
44	.30826	61	.69174	.31743	63	.68257	.00917	3	.99083	16
45	9.30887	60	10.69113	9.31806	64	10.68194	10.00920	2	9.99080	15
46	.30947	61	.69053	.31870	63	.68130	.00922	3	.99078	14
47	.31008	60	.68992	.31933	63	.68067	.00925	3	.99075	13
48	.31068	61	.68932	.31996	63	.68004	.00928	2	.99072	12
49	.31129	60	.68871	.32059	63	.67941	.00930	3	.99070	11
50	9.31189	61	10.68811	9.32122	63	10.67878	10.00933	3	9.99067	10
51	.31250	60	.68750	.32185	63	.67815	.00936	2	.99064	9
52	.31310	60	.68690	.32248	63	.67752	.00938	3	.99062	8
53	.31370	60	.68630	.32311	62	.67689	.00941	3	.99059	7
54	.31430	60	.68570	.32373	63	.67627	.00944	2	.99056	6
55	9.31490	59	10.68510	9.32436	62	10.67564	10.00946	3	9.99054	5
56	.31549	60	.68451	.32498	63	.67502	.00949	3	.99051	4
57	.31609	60	.68391	.32561	62	.67439	.00952	2	.99048	3
58	.31669	59	.68331	.32623	62	.67377	.00954	3	.99046	2
59	.31728	60	.68272	.32685	62	.67315	.00957	3	.99043	1
60	9.31788		10.68212	9.32747		10.67253	10.00960		9.99040	0
101° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 78°

TABLE 3
Common Logarithms of Trigonometric Functions (offset +10)

12° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 167° ′
0	9.31788	59	10.68212	9.32747	63	10.67253	10.00960	2	9.99040	60
1	.31847	60	.68153	.32810	62	.67190	.00962	3	.99038	59
2	.31907	59	.68093	.32872	61	.67128	.00965	3	.99035	58
3	.31966	59	.68034	.32933	62	.67067	.00968	2	.99032	57
4	.32025	59	.67975	.32995	62	.67005	.00970	3	.99030	56
5	9.32084	59	10.67916	9.33057	62	10.66943	10.00973	3	9.99027	55
6	.32143	59	.67857	.33119	61	.66881	.00976	2	.99024	54
7	.32202	59	.67798	.33180	62	.66820	.00978	3	.99022	53
8	.32261	58	.67739	.33242	61	.66758	.00981	3	.99019	52
9	.32319	59	.67681	.33303	62	.66697	.00984	3	.99016	51
10	9.32378	59	10.67622	9.33365	61	10.66635	10.00987	2	9.99013	50
11	.32437	58	.67563	.33426	61	.66574	.00989	3	.99011	49
12	.32495	58	.67505	.33487	61	.66513	.00992	3	.99008	48
13	.32553	59	.67447	.33548	61	.66452	.00995	3	.99005	47
14	.32612	58	.67388	.33609	61	.66391	.00998	2	.99002	46
15	9.32670	58	10.67330	9.33670	61	10.66330	10.01000	3	9.99000	45
16	.32728	58	.67272	.33731	61	.66269	.01003	3	.98997	44
17	.32786	58	.67214	.33792	61	.66208	.01006	3	.98994	43
18	.32844	58	.67156	.33853	60	.66147	.01009	2	.98991	42
19	.32902	58	.67098	.33913	61	.66087	.01011	3	.98989	41
20	9.32960	58	10.67040	9.33974	60	10.66026	10.01014	3	9.98986	40
21	.33018	57	.66982	.34034	61	.65966	.01017	3	.98983	39
22	.33075	58	.66925	.34095	60	.65905	.01020	2	.98980	38
23	.33133	57	.66867	.34155	60	.65845	.01022	3	.98978	37
24	.33190	58	.66810	.34215	61	.65785	.01025	3	.98975	36
25	9.33248	57	10.66752	9.34276	60	10.65724	10.01028	3	9.98972	35
26	.33305	57	.66695	.34336	60	.65664	.01031	2	.98969	34
27	.33362	58	.66638	.34396	60	.65604	.01033	3	.98967	33
28	.33420	57	.66580	.34456	60	.65544	.01036	3	.98964	32
29	.33477	57	.66523	.34516	60	.65484	.01039	3	.98961	31
30	9.33534	57	10.66466	9.34576	59	10.65424	10.01042	3	9.98958	30
31	.33591	56	.66409	.34635	60	.65365	.01045	2	.98955	29
32	.33647	57	.66353	.34695	60	.65305	.01047	3	.98953	28
33	.33704	57	.66296	.34755	59	.65245	.01050	3	.98950	27
34	.33761	57	.66239	.34814	60	.65186	.01053	3	.98947	26
35	9.33818	56	10.66182	9.34874	59	10.65126	10.01056	3	9.98944	25
36	.33874	57	.66126	.34933	59	.65067	.01059	3	.98941	24
37	.33931	56	.66069	.34992	59	.65008	.01062	2	.98938	23
38	.33987	56	.66013	.35051	60	.64949	.01064	3	.98936	22
39	.34043	57	.65957	.35111	59	.64889	.01067	3	.98933	21
40	9.34100	56	10.65900	9.35170	59	10.64830	10.01070	3	9.98930	20
41	.34156	56	.65844	.35229	59	.64771	.01073	3	.98927	19
42	.34212	56	.65788	.35288	59	.64712	.01076	3	.98924	18
43	.34268	56	.65732	.35347	58	.64653	.01079	2	.98921	17
44	.34324	56	.65676	.35405	59	.64595	.01081	3	.98919	16
45	9.34380	56	10.65620	9.35464	59	10.64536	10.01084	3	9.98916	15
46	.34436	55	.65564	.35523	58	.64477	.01087	3	.98913	14
47	.34491	56	.65509	.35581	59	.64419	.01090	3	.98910	13
48	.34547	55	.65453	.35640	58	.64360	.01093	3	.98907	12
49	.34602	56	.65398	.35698	59	.64302	.01096	3	.98904	11
50	9.34658	55	10.65342	9.35757	58	10.64243	10.01099	3	9.98901	10
51	.34713	56	.65287	.35815	58	.64185	.01102	2	.98898	9
52	.34769	55	.65231	.35873	58	.64127	.01104	3	.98896	8
53	.34824	55	.65176	.35931	58	.64069	.01107	3	.98893	7
54	.34879	55	.65121	.35989	58	.64011	.01110	3	.98890	6
55	9.34934	55	10.65066	9.36047	58	10.63953	10.01113	3	9.98887	5
56	.34989	55	.65011	.36105	58	.63895	.01116	3	.98884	4
57	.35044	55	.64956	.36163	58	.63837	.01119	3	.98881	3
58	.35099	55	.64901	.36221	58	.63779	.01122	3	.98878	2
59	.35154	55	.64846	.36279	58	.63721	.01125	3	.98875	1
60	9.35209	55	10.64791	9.36336	57	10.63664	10.01128	3	9.98872	0
102° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 77°

TABLE 3
Common Logarithms of Trigonometric Functions (offset +10)

13° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 166° ′
0	9.35209	54	10.64791	9.36336	58	10.63664	10.01128	3	9.98872	60
1	.35263	55	.64737	.36394	58	.63606	.01131	2	.98869	59
2	.35318	55	.64682	.36452	57	.63548	.01133	3	.98867	58
3	.35373	54	.64627	.36509	57	.63491	.01136	3	.98864	57
4	.35427	54	.64573	.36566	58	.63434	.01139	3	.98861	56
5	9.35481	55	10.64519	9.36624	57	10.63376	10.01142	3	9.98858	55
6	.35536	54	.64464	.36681	57	.63319	.01145	3	.98855	54
7	.35590	54	.64410	.36738	57	.63262	.01148	3	.98852	53
8	.35644	54	.64356	.36795	57	.63205	.01151	3	.98849	52
9	.35698	54	.64302	.36852	57	.63148	.01154	3	.98846	51
10	9.35752	54	10.64248	9.36909	57	10.63091	10.01157	3	9.98843	50
11	.35806	54	.64194	.36966	57	.63034	.01160	3	.98840	49
12	.35860	54	.64140	.37023	57	.62977	.01163	3	.98837	48
13	.35914	54	.64086	.37080	57	.62920	.01166	3	.98834	47
14	.35968	54	.64032	.37137	56	.62863	.01169	3	.98831	46
15	9.36022	53	10.63978	9.37193	57	10.62807	10.01172	3	9.98828	45
16	.36075	54	.63925	.37250	56	.62750	.01175	3	.98825	44
17	.36129	53	.63871	.37306	57	.62694	.01178	3	.98822	43
18	.36182	54	.63818	.37363	56	.62637	.01181	3	.98819	42
19	.36236	53	.63764	.37419	57	.62581	.01184	3	.98816	41
20	9.36289	53	10.63711	9.37476	56	10.62524	10.01187	3	9.98813	40
21	.36342	53	.63658	.37532	56	.62468	.01190	3	.98810	39
22	.36395	54	.63605	.37588	56	.62412	.01193	3	.98807	38
23	.36449	53	.63551	.37644	56	.62356	.01196	3	.98804	37
24	.36502	53	.63498	.37700	56	.62300	.01199	3	.98801	36
25	9.36555	53	10.63445	9.37756	56	10.62244	10.01202	3	9.98798	35
26	.36608	52	.63392	.37812	56	.62188	.01205	3	.98795	34
27	.36660	53	.63340	.37868	56	.62132	.01208	3	.98792	33
28	.36713	53	.63287	.37924	56	.62076	.01211	3	.98789	32
29	.36766	53	.63234	.37980	55	.62020	.01214	3	.98786	31
30	9.36819	52	10.63181	9.38035	56	10.61965	10.01217	3	9.98783	30
31	.36871	53	.63129	.38091	56	.61909	.01220	3	.98780	29
32	.36924	52	.63076	.38147	55	.61853	.01223	3	.98777	28
33	.36976	52	.63024	.38202	55	.61798	.01226	3	.98774	27
34	.37028	53	.62972	.38257	56	.61743	.01229	3	.98771	26
35	9.37081	52	10.62919	9.38313	55	10.61687	10.01232	3	9.98768	25
36	.37133	52	.62867	.38368	55	.61632	.01235	3	.98765	24
37	.37185	52	.62815	.38423	56	.61577	.01238	3	.98762	23
38	.37237	52	.62763	.38479	55	.61521	.01241	3	.98759	22
39	.37289	52	.62711	.38534	55	.61466	.01244	3	.98756	21
40	9.37341	52	10.62659	9.38589	55	10.61411	10.01247	3	9.98753	20
41	.37393	52	.62607	.38644	55	.61356	.01250	4	.98750	19
42	.37445	52	.62555	.38699	55	.61301	.01254	3	.98746	18
43	.37497	52	.62503	.38754	54	.61246	.01257	3	.98743	17
44	.37549	52	.62451	.38808	55	.61192	.01260	3	.98740	16
45	9.37600	51	10.62400	9.38863	55	10.61137	10.01263	3	9.98737	15
46	.37652	52	.62348	.38918	54	.61082	.01266	3	.98734	14
47	.37703	51	.62297	.38972	55	.61028	.01269	3	.98731	13
48	.37755	52	.62245	.39027	55	.60973	.01272	3	.98728	12
49	.37806	51	.62194	.39082	54	.60918	.01275	3	.98725	11
50	9.37858	52	10.62142	9.39136	54	10.60864	10.01278	3	9.98722	10
51	.37909	51	.62091	.39190	55	.60810	.01281	4	.98719	9
52	.37960	51	.62040	.39245	54	.60755	.01285	3	.98715	8
53	.38011	51	.61989	.39299	54	.60701	.01288	3	.98712	7
54	.38062	51	.61938	.39353	54	.60647	.01291	3	.98709	6
55	9.38113	51	10.61887	9.39407	54	10.60593	10.01294	3	9.98706	5
56	.38164	51	.61836	.39461	54	.60539	.01297	3	.98703	4
57	.38215	51	.61785	.39515	54	.60485	.01300	3	.98700	3
58	.38266	51	.61734	.39569	54	.60431	.01303	3	.98697	2
59	.38317	51	.61683	.39623	54	.60377	.01306	3	.98694	1
60	9.38368	51	10.61632	9.39677	54	10.60323	10.01310	4	9.98690	0
103° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 76°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

14° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 165° ′
0	9.38368	50	10.61632	9.39677	54	10.60323	10.01310	3	9.98690	60
1	.38418	51	.61582	.39731	54	.60269	.01313	3	.98687	59
2	.38469	50	.61531	.39785	53	.60215	.01316	3	.98684	58
3	.38519	51	.61481	.39838	54	.60162	.01319	3	.98681	57
4	.38570	50	.61430	.39892	53	.60108	.01322	3	.98678	56
5	9.38620	50	10.61380	9.39945	54	10.60055	10.01325	4	9.98675	55
6	.38670	51	.61330	.39999	53	.60001	.01329	3	.98671	54
7	.38721	50	.61279	.40052	54	.59948	.01332	3	.98668	53
8	.38771	50	.61229	.40106	53	.59894	.01335	3	.98665	52
9	.38821	50	.61179	.40159	53	.59841	.01338	3	.98662	51
10	9.38871	50	10.61129	9.40212	54	10.59788	10.01341	3	9.98659	50
11	.38921	50	.61079	.40266	53	.59734	.01344	4	.98656	49
12	.38971	50	.61029	.40319	53	.59681	.01348	3	.98652	48
13	.39021	50	.60979	.40372	53	.59628	.01351	3	.98649	47
14	.39071	50	.60929	.40425	53	.59575	.01354	3	.98646	46
15	9.39121	49	10.60879	9.40478	53	10.59522	10.01357	3	9.98643	45
16	.39170	50	.60830	.40531	53	.59469	.01360	4	.98640	44
17	.39220	50	.60780	.40584	52	.59416	.01364	3	.98636	43
18	.39270	49	.60730	.40636	53	.59364	.01367	3	.98633	42
19	.39319	50	.60681	.40689	53	.59311	.01370	3	.98630	41
20	9.39369	49	10.60631	9.40742	53	10.59258	10.01373	4	9.98627	40
21	.39418	49	.60582	.40795	52	.59205	.01377	3	.98623	39
22	.39467	50	.60533	.40847	53	.59153	.01380	3	.98620	38
23	.39517	49	.60483	.40900	52	.59100	.01383	3	.98617	37
24	.39566	49	.60434	.40952	53	.59048	.01386	4	.98614	36
25	9.39615	49	10.60385	9.41005	52	10.58995	10.01390	3	9.98610	35
26	.39664	49	.60336	.41057	52	.58943	.01393	3	.98607	34
27	.39713	49	.60287	.41109	52	.58891	.01396	3	.98604	33
28	.39762	49	.60238	.41161	53	.58839	.01399	4	.98601	32
29	.39811	49	.60189	.41214	52	.58786	.01403	3	.98597	31
30	9.39860	49	10.60140	9.41266	52	10.58734	10.01406	3	9.98594	30
31	.39909	49	.60091	.41318	52	.58682	.01409	3	.98591	29
32	.39958	48	.60042	.41370	52	.58630	.01412	4	.98588	28
33	.40006	49	.59994	.41422	52	.58578	.01416	3	.98584	27
34	.40055	48	.59945	.41474	52	.58526	.01419	3	.98581	26
35	9.40103	49	10.59897	9.41526	52	10.58474	10.01422	4	9.98578	25
36	.40152	48	.59848	.41578	51	.58422	.01426	3	.98574	24
37	.40200	49	.59800	.41629	52	.58371	.01429	3	.98571	23
38	.40249	48	.59751	.41681	52	.58319	.01432	3	.98568	22
39	.40297	49	.59703	.41733	51	.58267	.01435	4	.98565	21
40	9.40346	48	10.59654	9.41784	52	10.58216	10.01439	3	9.98561	20
41	.40394	48	.59606	.41836	51	.58164	.01442	3	.98558	19
42	.40442	48	.59558	.41887	52	.58113	.01445	4	.98555	18
43	.40490	48	.59510	.41939	51	.58061	.01449	3	.98551	17
44	.40538	48	.59462	.41990	51	.58010	.01452	3	.98548	16
45	9.40586	48	10.59414	9.42041	52	10.57959	10.01455	4	9.98545	15
46	.40634	48	.59366	.42093	51	.57907	.01459	3	.98541	14
47	.40682	48	.59318	.42144	51	.57856	.01462	3	.98538	13
48	.40730	48	.59270	.42195	51	.57805	.01465	4	.98535	12
49	.40778	47	.59222	.42246	51	.57754	.01469	3	.98531	11
50	9.40825	48	10.59175	9.42297	51	10.57703	10.01472	3	9.98528	10
51	.40873	48	.59127	.42348	51	.57652	.01475	4	.98525	9
52	.40921	47	.59079	.42399	51	.57601	.01479	3	.98521	8
53	.40968	48	.59032	.42450	51	.57550	.01482	3	.98518	7
54	.41016	47	.58984	.42501	51	.57499	.01485	4	.98515	6
55	9.41063	48	10.58937	9.42552	51	10.57448	10.01489	3	9.98511	5
56	.41111	47	.58889	.42603	50	.57397	.01492	3	.98508	4
57	.41158	47	.58842	.42653	51	.57347	.01495	4	.98505	3
58	.41205	47	.58795	.42704	51	.57296	.01499	3	.98501	2
59	.41252	48	.58748	.42755	50	.57245	.01502	4	.98498	1
60	9.41300		10.58700	9.42805		10.57195	10.01506		9.98494	0
104° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 75°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

15° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 164° ′
0	9.41300	47	10.58700	9.42805	51	10.57195	10.01506	3	9.98494	60
1	.41347	47	.58653	.42856	50	.57144	.01509	3	.98491	59
2	.41394	47	.58606	.42906	51	.57094	.01512	4	.98488	58
3	.41441	47	.58559	.42957	50	.57043	.01516	3	.98484	57
4	.41488	47	.58512	.43007	50	.56993	.01519	4	.98481	56
5	9.41535	47	10.58465	9.43057	51	10.56943	10.01523	3	9.98477	55
6	.41582	46	.58418	.43108	50	.56892	.01526	3	.98474	54
7	.41628	47	.58372	.43158	50	.56842	.01529	4	.98471	53
8	.41675	47	.58325	.43208	50	.56792	.01533	3	.98467	52
9	.41722	46	.58278	.43258	50	.56742	.01536	4	.98464	51
10	9.41768	47	10.58232	9.43308	50	10.56692	10.01540	3	9.98460	50
11	.41815	46	.58185	.43358	50	.56642	.01543	4	.98457	49
12	.41861	47	.58139	.43408	50	.56592	.01547	3	.98453	48
13	.41908	46	.58092	.43458	50	.56542	.01550	3	.98450	47
14	.41954	47	.58046	.43508	50	.56492	.01553	4	.98447	46
15	9.42001	46	10.57999	9.43558	49	10.56442	10.01557	3	9.98443	45
16	.42047	46	.57953	.43607	50	.56393	.01560	4	.98440	44
17	.42093	47	.57907	.43657	50	.56343	.01564	3	.98436	43
18	.42140	46	.57860	.43707	49	.56293	.01567	4	.98433	42
19	.42186	46	.57814	.43756	50	.56244	.01571	3	.98429	41
20	9.42232	46	10.57768	9.43806	49	10.56194	10.01574	4	9.98426	40
21	.42278	46	.57722	.43855	50	.56145	.01578	3	.98422	39
22	.42324	46	.57676	.43905	49	.56095	.01581	4	.98419	38
23	.42370	46	.57630	.43954	50	.56046	.01585	3	.98415	37
24	.42416	45	.57584	.44004	49	.55996	.01588	3	.98412	36
25	9.42461	46	10.57539	9.44053	49	10.55947	10.01591	4	9.98409	35
26	.42507	46	.57493	.44102	49	.55898	.01595	3	.98405	34
27	.42553	46	.57447	.44151	50	.55849	.01598	4	.98402	33
28	.42599	45	.57401	.44201	49	.55799	.01602	3	.98398	32
29	.42644	46	.57356	.44250	49	.55750	.01605	4	.98395	31
30	9.42690	45	10.57310	9.44299	49	10.55701	10.01609	3	9.98391	30
31	.42735	46	.57265	.44348	49	.55652	.01612	4	.98388	29
32	.42781	45	.57219	.44397	49	.55603	.01616	3	.98384	28
33	.42826	46	.57174	.44446	49	.55554	.01619	4	.98381	27
34	.42872	45	.57128	.44495	49	.55505	.01623	4	.98377	26
35	9.42917	45	10.57083	9.44544	48	10.55456	10.01627	3	9.98373	25
36	.42962	46	.57038	.44592	49	.55408	.01630	4	.98370	24
37	.43008	45	.56992	.44641	49	.55359	.01634	3	.98366	23
38	.43053	45	.56947	.44690	48	.55310	.01637	4	.98363	22
39	.43098	45	.56902	.44738	49	.55262	.01641	3	.98359	21
40	9.43143	45	10.56857	9.44787	49	10.55213	10.01644	4	9.98356	20
41	.43188	45	.56812	.44836	48	.55164	.01648	3	.98352	19
42	.43233	45	.56767	.44884	49	.55116	.01651	4	.98349	18
43	.43278	45	.56722	.44933	48	.55067	.01655	3	.98345	17
44	.43323	44	.56677	.44981	48	.55019	.01658	4	.98342	16
45	9.43367	45	10.56633	9.45029	49	10.54971	10.01662	4	9.98338	15
46	.43412	45	.56588	.45078	48	.54922	.01666	3	.98334	14
47	.43457	45	.56543	.45126	48	.54874	.01669	4	.98331	13
48	.43502	44	.56498	.45174	48	.54826	.01673	3	.98327	12
49	.43546	45	.56454	.45222	49	.54778	.01676	4	.98324	11
50	9.43591	44	10.56409	9.45271	48	10.54729	10.01680	3	9.98320	10
51	.43635	45	.56365	.45319	48	.54681	.01683	4	.98317	9
52	.43680	44	.56320	.45367	48	.54633	.01687	4	.98313	8
53	.43724	45	.56276	.45415	48	.54585	.01691	3	.98309	7
54	.43769	44	.56231	.45463	48	.54537	.01694	4	.98306	6
55	9.43813	44	10.56187	9.45511	48	10.54489	10.01698	3	9.98302	5
56	.43857	44	.56143	.45559	47	.54441	.01701	4	.98299	4
57	.43901	44	.56099	.45606	48	.54394	.01705	4	.98295	3
58	.43946	45	.56054	.45654	48	.54346	.01709	3	.98291	2
59	.43990	44	.56010	.45702	48	.54298	.01712	4	.98288	1
60	9.44034	44	10.55966	9.45750	48	10.54250	10.01716		9.98284	0
105° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 74°

TABLE 3
Common Logarithms of Trigonometric Functions (offset +10)

16° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 163° ′
0	9.44034	44	10.55966	9.45750	47	10.54250	10.01716	3	9.98284	60
1	.44078	44	.55922	.45797	48	.54203	.01719	4	.98281	59
2	.44122	44	.55878	.45845	47	.54155	.01723	4	.98277	58
3	.44166	44	.55834	.45892	48	.54108	.01727	3	.98273	57
4	.44210	43	.55790	.45940	47	.54060	.01730	4	.98270	56
5	9.44253	44	10.55747	9.45987	48	10.54013	10.01734	4	9.98266	55
6	.44297	44	.55703	.46035	47	.53965	.01738	3	.98262	54
7	.44341	44	.55659	.46082	48	.53918	.01741	4	.98259	53
8	.44385	43	.55615	.46130	47	.53870	.01745	4	.98255	52
9	.44428	44	.55572	.46177	47	.53823	.01749	3	.98251	51
10	9.44472	44	10.55528	9.46224	47	10.53776	10.01752	4	9.98248	50
11	.44516	43	.55484	.46271	48	.53729	.01756	4	.98244	49
12	.44559	43	.55441	.46319	47	.53681	.01760	3	.98240	48
13	.44602	44	.55398	.46366	47	.53634	.01763	4	.98237	47
14	.44646	43	.55354	.46413	47	.53587	.01767	4	.98233	46
15	9.44689	44	10.55311	9.46460	47	10.53540	10.01771	3	9.98229	45
16	.44733	43	.55267	.46507	47	.53493	.01774	4	.98226	44
17	.44776	43	.55224	.46554	47	.53446	.01778	4	.98222	43
18	.44819	43	.55181	.46601	47	.53399	.01782	3	.98218	42
19	.44862	43	.55138	.46648	46	.53352	.01785	4	.98215	41
20	9.44905	43	10.55095	9.46694	47	10.53306	10.01789	4	9.98211	40
21	.44948	44	.55052	.46741	47	.53259	.01793	3	.98207	39
22	.44992	43	.55008	.46788	47	.53212	.01796	4	.98204	38
23	.45035	42	.54965	.46835	46	.53165	.01800	4	.98200	37
24	.45077	43	.54923	.46881	47	.53119	.01804	4	.98196	36
25	9.45120	43	10.54880	9.46928	47	10.53072	10.01808	3	9.98192	35
26	.45163	43	.54837	.46975	46	.53025	.01811	4	.98189	34
27	.45206	43	.54794	.47021	47	.52979	.01815	4	.98185	33
28	.45249	43	.54751	.47068	46	.52932	.01819	4	.98181	32
29	.45292	42	.54708	.47114	46	.52886	.01823	3	.98177	31
30	9.45334	43	10.54666	9.47160	47	10.52840	10.01826	4	9.98174	30
31	.45377	42	.54623	.47207	46	.52793	.01830	4	.98170	29
32	.45419	43	.54581	.47253	46	.52747	.01834	4	.98166	28
33	.45462	42	.54538	.47299	47	.52701	.01838	3	.98162	27
34	.45504	43	.54496	.47346	46	.52654	.01841	4	.98159	26
35	9.45547	42	10.54453	9.47392	46	10.52608	10.01845	4	9.98155	25
36	.45589	43	.54411	.47438	46	.52562	.01849	4	.98151	24
37	.45632	42	.54368	.47484	46	.52516	.01853	3	.98147	23
38	.45674	42	.54326	.47530	46	.52470	.01856	4	.98144	22
39	.45716	42	.54284	.47576	46	.52424	.01860	4	.98140	21
40	9.45758	43	10.54242	9.47622	46	10.52378	10.01864	4	9.98136	20
41	.45801	42	.54199	.47668	46	.52332	.01868	3	.98132	19
42	.45843	42	.54157	.47714	46	.52286	.01871	4	.98129	18
43	.45885	42	.54115	.47760	46	.52240	.01875	4	.98125	17
44	.45927	42	.54073	.47806	46	.52194	.01879	4	.98121	16
45	9.45969	42	10.54031	9.47852	45	10.52148	10.01883	4	9.98117	15
46	.46011	42	.53989	.47897	46	.52103	.01887	3	.98113	14
47	.46053	42	.53947	.47943	46	.52057	.01890	4	.98110	13
48	.46095	41	.53905	.47989	46	.52011	.01894	4	.98106	12
49	.46136	42	.53864	.48035	45	.51965	.01898	4	.98102	11
50	9.46178	42	10.53822	9.48080	46	10.51920	10.01902	4	9.98098	10
51	.46220	42	.53780	.48126	45	.51874	.01906	4	.98094	9
52	.46262	41	.53738	.48171	46	.51829	.01910	3	.98090	8
53	.46303	42	.53697	.48217	45	.51783	.01913	4	.98087	7
54	.46345	41	.53655	.48262	45	.51738	.01917	4	.98083	6
55	9.46386	42	10.53614	9.48307	46	10.51693	10.01921	4	9.98079	5
56	.46428	41	.53572	.48353	45	.51647	.01925	4	.98075	4
57	.46469	42	.53531	.48398	45	.51602	.01929	4	.98071	3
58	.46511	41	.53489	.48443	46	.51557	.01933	4	.98067	2
59	.46552	42	.53448	.48489	45	.51511	.01937	3	.98063	1
60	9.46594		10.53406	9.48534		10.51466	10.01940		9.98060	0
106° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 73°

TABLE 3
Common Logarithms of Trigonometric Functions (offset +10)

17° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 162° ′
0	9.46594	41	10.53406	9.48534	45	10.51466	10.01940	4	9.98060	60
1	.46635	41	.53365	.48579	45	.51421	.01944	4	.98056	59
2	.46676	41	.53324	.48624	45	.51376	.01948	4	.98052	58
3	.46717	41	.53283	.48669	45	.51331	.01952	4	.98048	57
4	.46758	42	.53242	.48714	45	.51286	.01956	4	.98044	56
5	9.46800	41	10.53200	9.48759	45	10.51241	10.01960	4	9.98040	55
6	.46841	41	.53159	.48804	45	.51196	.01964	4	.98036	54
7	.46882	41	.53118	.48849	45	.51151	.01968	3	.98032	53
8	.46923	41	.53077	.48894	45	.51106	.01971	4	.98029	52
9	.46964	41	.53036	.48939	45	.51061	.01975	4	.98025	51
10	9.47005	40	10.52995	9.48984	45	10.51016	10.01979	4	9.98021	50
11	.47045	41	.52955	.49029	44	.50971	.01983	4	.98017	49
12	.47086	41	.52914	.49073	45	.50927	.01987	4	.98013	48
13	.47127	41	.52873	.49118	45	.50882	.01991	4	.98009	47
14	.47168	41	.52832	.49163	44	.50837	.01995	4	.98005	46
15	9.47209	40	10.52791	9.49207	45	10.50793	10.01999	4	9.98001	45
16	.47249	41	.52751	.49252	44	.50748	.02003	4	.97997	44
17	.47290	40	.52710	.49296	45	.50704	.02007	4	.97993	43
18	.47330	41	.52670	.49341	44	.50659	.02011	3	.97989	42
19	.47371	40	.52629	.49385	45	.50615	.02014	4	.97986	41
20	9.47411	41	10.52589	9.49430	44	10.50570	10.02018	4	9.97982	40
21	.47452	40	.52548	.49474	45	.50526	.02022	4	.97978	39
22	.47492	41	.52508	.49519	44	.50481	.02026	4	.97974	38
23	.47533	40	.52467	.49563	44	.50437	.02030	4	.97970	37
24	.47573	40	.52427	.49607	45	.50393	.02034	4	.97966	36
25	9.47613	41	10.52387	9.49652	44	10.50348	10.02038	4	9.97962	35
26	.47654	40	.52346	.49696	44	.50304	.02042	4	.97958	34
27	.47694	40	.52306	.49740	44	.50260	.02046	4	.97954	33
28	.47734	40	.52266	.49784	44	.50216	.02050	4	.97950	32
29	.47774	40	.52226	.49828	44	.50172	.02054	4	.97946	31
30	9.47814	40	10.52186	9.49872	44	10.50128	10.02058	4	9.97942	30
31	.47854	40	.52146	.49916	44	.50084	.02062	4	.97938	29
32	.47894	40	.52106	.49960	44	.50040	.02066	4	.97934	28
33	.47934	40	.52066	.50004	44	.49996	.02070	4	.97930	27
34	.47974	40	.52026	.50048	44	.49952	.02074	4	.97926	26
35	9.48014	40	10.51986	9.50092	44	10.49908	10.02078	4	9.97922	25
36	.48054	40	.51946	.50136	44	.49864	.02082	4	.97918	24
37	.48094	39	.51906	.50180	43	.49820	.02086	4	.97914	23
38	.48133	40	.51867	.50223	44	.49777	.02090	4	.97910	22
39	.48173	40	.51827	.50267	44	.49733	.02094	4	.97906	21
40	9.48213	39	10.51787	9.50311	44	10.49689	10.02098	4	9.97902	20
41	.48252	40	.51748	.50355	43	.49645	.02102	4	.97898	19
42	.48292	40	.51708	.50398	44	.49602	.02106	4	.97894	18
43	.48332	39	.51668	.50442	43	.49558	.02110	4	.97890	17
44	.48371	40	.51629	.50485	44	.49515	.02114	4	.97886	16
45	9.48411	39	10.51589	9.50529	43	10.49471	10.02118	4	9.97882	15
46	.48450	40	.51550	.50572	44	.49428	.02122	4	.97878	14
47	.48490	39	.51510	.50616	43	.49384	.02126	4	.97874	13
48	.48529	39	.51471	.50659	44	.49341	.02130	4	.97870	12
49	.48568	39	.51432	.50703	43	.49297	.02134	5	.97866	11
50	9.48607	40	10.51393	9.50746	43	10.49254	10.02139	4	9.97861	10
51	.48647	39	.51353	.50789	44	.49211	.02143	4	.97857	9
52	.48686	39	.51314	.50833	43	.49167	.02147	4	.97853	8
53	.48725	39	.51275	.50876	43	.49124	.02151	4	.97849	7
54	.48764	39	.51236	.50919	43	.49081	.02155	4	.97845	6
55	9.48803	39	10.51197	9.50962	43	10.49038	10.02159	4	9.97841	5
56	.48842	39	.51158	.51005	43	.48995	.02163	4	.97837	4
57	.48881	39	.51119	.51048	44	.48952	.02167	4	.97833	3
58	.48920	39	.51080	.51092	43	.48908	.02171	4	.97829	2
59	.48959	39	.51041	.51135	43	.48865	.02175	4	.97825	1
60	9.48998		10.51002	9.51178		10.48822	10.02179		9.97821	0
107° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 72°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

18° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 161° ′
0	9.48998	39	10.51002	9.51178	43	10.48822	10.02179	4	9.97821	60
1	.49037	39	.50963	.51221	43	.48779	.02183	5	.97817	59
2	.49076	39	.50924	.51264	42	.48736	.02188	4	.97812	58
3	.49115	38	.50885	.51306	43	.48694	.02192	4	.97808	57
4	.49153	39	.50847	.51349	43	.48651	.02196	4	.97804	56
5	9.49192	39	10.50808	9.51392	43	10.48608	10.02200	4	9.97800	55
6	.49231	38	.50769	.51435	43	.48565	.02204	4	.97796	54
7	.49269	39	.50731	.51478	42	.48522	.02208	4	.97792	53
8	.49308	39	.50692	.51520	43	.48480	.02212	4	.97788	52
9	.49347	38	.50653	.51563	43	.48437	.02216	5	.97784	51
10	9.49385	39	10.50615	9.51606	42	10.48394	10.02221	4	9.97779	50
11	.49424	38	.50576	.51648	43	.48352	.02225	4	.97775	49
12	.49462	38	.50538	.51691	43	.48309	.02229	4	.97771	48
13	.49500	39	.50500	.51734	42	.48266	.02233	4	.97767	47
14	.49539	38	.50461	.51776	43	.48224	.02237	4	.97763	46
15	9.49577	38	10.50423	9.51819	42	10.48181	10.02241	5	9.97759	45
16	.49615	39	.50385	.51861	42	.48139	.02246	4	.97754	44
17	.49654	38	.50346	.51903	43	.48097	.02250	4	.97750	43
18	.49692	38	.50308	.51946	42	.48054	.02254	4	.97746	42
19	.49730	38	.50270	.51988	43	.48012	.02258	4	.97742	41
20	9.49768	38	10.50232	9.52031	42	10.47969	10.02262	4	9.97738	40
21	.49806	38	.50194	.52073	42	.47927	.02266	5	.97734	39
22	.49844	38	.50156	.52115	42	.47885	.02271	4	.97729	38
23	.49882	38	.50118	.52157	43	.47843	.02275	4	.97725	37
24	.49920	38	.50080	.52200	42	.47800	.02279	4	.97721	36
25	9.49958	38	10.50042	9.52242	42	10.47758	10.02283	4	9.97717	35
26	.49996	38	.50004	.52284	42	.47716	.02287	5	.97713	34
27	.50034	38	.49966	.52326	42	.47674	.02292	4	.97708	33
28	.50072	38	.49928	.52368	42	.47632	.02296	4	.97704	32
29	.50110	38	.49890	.52410	42	.47590	.02300	4	.97700	31
30	9.50148	37	10.49852	9.52452	42	10.47548	10.02304	5	9.97696	30
31	.50185	38	.49815	.52494	42	.47506	.02309	4	.97691	29
32	.50223	38	.49777	.52536	42	.47464	.02313	4	.97687	28
33	.50261	37	.49739	.52578	42	.47422	.02317	4	.97683	27
34	.50298	38	.49702	.52620	41	.47380	.02321	5	.97679	26
35	9.50336	38	10.49664	9.52661	42	10.47339	10.02326	4	9.97674	25
36	.50374	37	.49626	.52703	42	.47297	.02330	4	.97670	24
37	.50411	38	.49589	.52745	42	.47255	.02334	4	.97666	23
38	.50449	37	.49551	.52787	42	.47213	.02338	5	.97662	22
39	.50486	37	.49514	.52829	41	.47171	.02343	4	.97657	21
40	9.50523	38	10.49477	9.52870	42	10.47130	10.02347	4	9.97653	20
41	.50561	37	.49439	.52912	41	.47088	.02351	4	.97649	19
42	.50598	37	.49402	.52953	42	.47047	.02355	5	.97645	18
43	.50635	38	.49365	.52995	42	.47005	.02360	4	.97640	17
44	.50673	37	.49327	.53037	41	.46963	.02364	4	.97636	16
45	9.50710	37	10.49290	9.53078	42	10.46922	10.02368	4	9.97632	15
46	.50747	37	.49253	.53120	41	.46880	.02372	5	.97628	14
47	.50784	37	.49216	.53161	41	.46839	.02377	4	.97623	13
48	.50821	37	.49179	.53202	42	.46798	.02381	4	.97619	12
49	.50858	38	.49142	.53244	41	.46756	.02385	5	.97615	11
50	9.50896	37	10.49104	9.53285	42	10.46715	10.02390	4	9.97610	10
51	.50933	37	.49067	.53327	41	.46673	.02394	4	.97606	9
52	.50970	37	.49030	.53368	41	.46632	.02398	5	.97602	8
53	.51007	36	.48993	.53409	41	.46591	.02403	4	.97597	7
54	.51043	37	.48957	.53450	42	.46550	.02407	4	.97593	6
55	9.51080	37	10.48920	9.53492	41	10.46508	10.02411	5	9.97589	5
56	.51117	37	.48883	.53533	41	.46467	.02416	4	.97584	4
57	.51154	37	.48846	.53574	41	.46426	.02420	4	.97580	3
58	.51191	36	.48809	.53615	41	.46385	.02424	5	.97576	2
59	.51227	37	.48773	.53656	41	.46344	.02429	4	.97571	1
60	9.51264		10.48736	9.53697	41	10.46303	10.02433		9.97567	0
108° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 71°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

19° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 160° ′
0	9.51264	37	10.48736	9.53697	41	10.46303	10.02433	4	9.97567	60
1	.51301	37	.48699	.53738	41	.46262	.02437	5	.97563	59
2	.51338	36	.48662	.53779	41	.46221	.02442	4	.97558	58
3	.51374	37	.48626	.53820	41	.46180	.02446	4	.97554	57
4	.51411	36	.48589	.53861	41	.46139	.02450	5	.97550	56
5	9.51447	37	10.48553	9.53902	41	10.46098	10.02455	4	9.97545	55
6	.51484	36	.48516	.53943	41	.46057	.02459	5	.97541	54
7	.51520	37	.48480	.53984	41	.46016	.02464	4	.97536	53
8	.51557	36	.48443	.54025	40	.45975	.02468	4	.97532	52
9	.51593	36	.48407	.54065	41	.45935	.02472	5	.97528	51
10	9.51629	37	10.48371	9.54106	41	10.45894	10.02477	4	9.97523	50
11	.51666	36	.48334	.54147	40	.45853	.02481	4	.97519	49
12	.51702	36	.48298	.54187	41	.45813	.02485	5	.97515	48
13	.51738	36	.48262	.54228	41	.45772	.02490	4	.97510	47
14	.51774	37	.48226	.54269	40	.45731	.02494	5	.97506	46
15	9.51811	36	10.48189	9.54309	41	10.45691	10.02499	4	9.97501	45
16	.51847	36	.48153	.54350	40	.45650	.02503	5	.97497	44
17	.51883	36	.48117	.54390	41	.45610	.02508	4	.97492	43
18	.51919	36	.48081	.54431	40	.45569	.02512	4	.97488	42
19	.51955	36	.48045	.54471	41	.45529	.02516	5	.97484	41
20	9.51991	36	10.48009	9.54512	40	10.45488	10.02521	4	9.97479	40
21	.52027	36	.47973	.54552	41	.45448	.02525	5	.97475	39
22	.52063	36	.47937	.54593	40	.45407	.02530	4	.97470	38
23	.52099	36	.47901	.54633	40	.45367	.02534	5	.97466	37
24	.52135	36	.47865	.54673	41	.45327	.02539	4	.97461	36
25	9.52171	36	10.47829	9.54714	40	10.45286	10.02543	4	9.97457	35
26	.52207	35	.47793	.54754	40	.45246	.02547	5	.97453	34
27	.52242	36	.47758	.54794	41	.45206	.02552	4	.97448	33
28	.52278	36	.47722	.54835	40	.45165	.02556	5	.97444	32
29	.52314	36	.47686	.54875	40	.45125	.02561	4	.97439	31
30	9.52350	35	10.47650	9.54915	40	10.45085	10.02565	5	9.97435	30
31	.52385	36	.47615	.54955	40	.45045	.02570	4	.97430	29
32	.52421	35	.47579	.54995	40	.45005	.02574	5	.97426	28
33	.52456	36	.47544	.55035	40	.44965	.02579	4	.97421	27
34	.52492	35	.47508	.55075	40	.44925	.02583	5	.97417	26
35	9.52527	36	10.47473	9.55115	40	10.44885	10.02588	4	9.97412	25
36	.52563	35	.47437	.55155	40	.44845	.02592	5	.97408	24
37	.52598	36	.47402	.55195	40	.44805	.02597	4	.97403	23
38	.52634	35	.47366	.55235	40	.44765	.02601	5	.97399	22
39	.52669	36	.47331	.55275	40	.44725	.02606	4	.97394	21
40	9.52705	35	10.47295	9.55315	40	10.44685	10.02610	5	9.97390	20
41	.52740	35	.47260	.55355	40	.44645	.02615	4	.97385	19
42	.52775	36	.47225	.55395	39	.44605	.02619	5	.97381	18
43	.52811	35	.47189	.55434	40	.44566	.02624	4	.97376	17
44	.52846	35	.47154	.55474	40	.44526	.02628	5	.97372	16
45	9.52881	35	10.47119	9.55514	40	10.44486	10.02633	4	9.97367	15
46	.52916	35	.47084	.55554	39	.44446	.02637	5	.97363	14
47	.52951	35	.47049	.55593	40	.44407	.02642	5	.97358	13
48	.52986	35	.47014	.55633	40	.44367	.02647	4	.97353	12
49	.53021	35	.46979	.55673	39	.44327	.02651	5	.97349	11
50	9.53056	36	10.46944	9.55712	40	10.44288	10.02656	4	9.97344	10
51	.53092	34	.46908	.55752	39	.44248	.02660	5	.97340	9
52	.53126	35	.46874	.55791	40	.44209	.02665	4	.97335	8
53	.53161	35	.46839	.55831	39	.44169	.02669	5	.97331	7
54	.53196	35	.46804	.55870	40	.44130	.02674	4	.97326	6
55	9.53231	35	10.46769	9.55910	39	10.44090	10.02678	5	9.97322	5
56	.53266	35	.46734	.55949	40	.44051	.02683	5	.97317	4
57	.53301	35	.46699	.55989	39	.44011	.02688	4	.97312	3
58	.53336	34	.46664	.56028	39	.43972	.02692	5	.97308	2
59	.53370	35	.46630	.56067	40	.43933	.02697	4	.97303	1
60	9.53405		10.46595	9.56107		10.43893	10.02701		9.97299	0
109° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 70°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

20° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 159° ′
0	9.53405	35	10.46595	9.56107	39	10.43893	10.02701	5	9.97299	60
1	.53440	35	.46560	.56146	39	.43854	.02706	5	.97294	59
2	.53475	34	.46525	.56185	39	.43815	.02711	4	.97289	58
3	.53509	35	.46491	.56224	40	.43776	.02715	5	.97285	57
4	.53544	34	.46456	.56264	39	.43736	.02720	4	.97280	56
5	9.53578	35	10.46422	9.56303	39	10.43697	10.02724	5	9.97276	55
6	.53613	34	.46387	.56342	39	.43658	.02729	5	.97271	54
7	.53647	35	.46353	.56381	39	.43619	.02734	4	.97266	53
8	.53682	34	.46318	.56420	39	.43580	.02738	5	.97262	52
9	.53716	35	.46284	.56459	39	.43541	.02743	5	.97257	51
10	9.53751	34	10.46249	9.56498	39	10.43502	10.02748	4	9.97252	50
11	.53785	34	.46215	.56537	39	.43463	.02752	5	.97248	49
12	.53819	35	.46181	.56576	39	.43424	.02757	5	.97243	48
13	.53854	34	.46146	.56615	39	.43385	.02762	4	.97238	47
14	.53888	34	.46112	.56654	39	.43346	.02766	5	.97234	46
15	9.53922	35	10.46078	9.56693	39	10.43307	10.02771	5	9.97229	45
16	.53957	34	.46043	.56732	39	.43268	.02776	4	.97224	44
17	.53991	34	.46009	.56771	39	.43229	.02780	5	.97220	43
18	.54025	34	.45975	.56810	39	.43190	.02785	5	.97215	42
19	.54059	34	.45941	.56849	38	.43151	.02790	4	.97210	41
20	9.54093	34	10.45907	9.56887	39	10.43113	10.02794	5	9.97206	40
21	.54127	34	.45873	.56926	39	.43074	.02799	5	.97201	39
22	.54161	34	.45839	.56965	39	.43035	.02804	4	.97196	38
23	.54195	34	.45805	.57004	38	.42996	.02808	5	.97192	37
24	.54229	34	.45771	.57042	39	.42958	.02813	5	.97187	36
25	9.54263	34	10.45737	9.57081	39	10.42919	10.02818	4	9.97182	35
26	.54297	34	.45703	.57120	38	.42880	.02822	5	.97178	34
27	.54331	34	.45669	.57158	39	.42842	.02827	5	.97173	33
28	.54365	34	.45635	.57197	38	.42803	.02832	5	.97168	32
29	.54399	34	.45601	.57235	39	.42765	.02837	4	.97163	31
30	9.54433	33	10.45567	9.57274	38	10.42726	10.02841	5	9.97159	30
31	.54466	34	.45534	.57312	39	.42688	.02846	5	.97154	29
32	.54500	34	.45500	.57351	38	.42649	.02851	4	.97149	28
33	.54534	33	.45466	.57389	39	.42611	.02855	5	.97145	27
34	.54567	34	.45433	.57428	38	.42572	.02860	5	.97140	26
35	9.54601	34	10.45399	9.57466	38	10.42534	10.02865	5	9.97135	25
36	.54635	33	.45365	.57504	39	.42496	.02870	4	.97130	24
37	.54668	34	.45332	.57543	38	.42457	.02874	5	.97126	23
38	.54702	33	.45298	.57581	38	.42419	.02879	5	.97121	22
39	.54735	34	.45265	.57619	39	.42381	.02884	5	.97116	21
40	9.54769	33	10.45231	9.57658	38	10.42342	10.02889	4	9.97111	20
41	.54802	34	.45198	.57696	38	.42304	.02893	5	.97107	19
42	.54836	33	.45164	.57734	38	.42266	.02898	5	.97102	18
43	.54869	34	.45131	.57772	38	.42228	.02903	5	.97097	17
44	.54903	33	.45097	.57810	39	.42190	.02908	5	.97092	16
45	9.54936	33	10.45064	9.57849	38	10.42151	10.02913	4	9.97087	15
46	.54969	34	.45031	.57887	38	.42113	.02917	5	.97083	14
47	.55003	33	.44997	.57925	38	.42075	.02922	5	.97078	13
48	.55036	33	.44964	.57963	38	.42037	.02927	5	.97073	12
49	.55069	33	.44931	.58001	38	.41999	.02932	5	.97068	11
50	9.55102	34	10.44898	9.58039	38	10.41961	10.02937	4	9.97063	10
51	.55136	33	.44864	.58077	38	.41923	.02941	5	.97059	9
52	.55169	33	.44831	.58115	38	.41885	.02946	5	.97054	8
53	.55202	33	.44798	.58153	38	.41847	.02951	5	.97049	7
54	.55235	33	.44765	.58191	38	.41809	.02956	5	.97044	6
55	9.55268	33	10.44732	9.58229	38	10.41771	10.02961	4	9.97039	5
56	.55301	33	.44699	.58267	37	.41733	.02965	5	.97035	4
57	.55334	33	.44666	.58304	38	.41696	.02970	5	.97030	3
58	.55367	33	.44633	.58342	38	.41658	.02975	5	.97025	2
59	.55400	33	.44600	.58380	38	.41620	.02980	5	.97020	1
60	9.55433	33	10.44567	9.58418	38	10.41582	10.02985	5	9.97015	0
110° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 69°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

21° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 158° ′
0	9.55433	33	10.44567	9.58418	37	10.41582	10.02985	5	9.97015	60
1	.55466	33	.44534	.58455	38	.41545	.02990	5	.97010	59
2	.55499	33	.44501	.58493	38	.41507	.02995	4	.97005	58
3	.55532	32	.44468	.58531	38	.41469	.02999	5	.97001	57
4	.55564	33	.44436	.58569	37	.41431	.03004	5	.96996	56
5	9.55597	33	10.44403	9.58606	38	10.41394	10.03009	5	9.96991	55
6	.55630	33	.44370	.58644	37	.41356	.03014	5	.96986	54
7	.55663	32	.44337	.58681	38	.41319	.03019	5	.96981	53
8	.55695	33	.44305	.58719	38	.41281	.03024	5	.96976	52
9	.55728	33	.44272	.58757	37	.41243	.03029	5	.96971	51
10	9.55761	32	10.44239	9.58794	38	10.41206	10.03034	4	9.96966	50
11	.55793	33	.44207	.58832	37	.41168	.03038	5	.96962	49
12	.55826	32	.44174	.58869	38	.41131	.03043	5	.96957	48
13	.55858	33	.44142	.58907	37	.41093	.03048	5	.96952	47
14	.55891	32	.44109	.58944	37	.41056	.03053	5	.96947	46
15	9.55923	33	10.44077	9.58981	38	10.41019	10.03058	5	9.96942	45
16	.55956	32	.44044	.59019	37	.40981	.03063	5	.96937	44
17	.55988	33	.44012	.59056	38	.40944	.03068	5	.96932	43
18	.56021	32	.43979	.59094	37	.40906	.03073	5	.96927	42
19	.56053	32	.43947	.59131	37	.40869	.03078	5	.96922	41
20	9.56085	33	10.43915	9.59168	37	10.40832	10.03083	5	9.96917	40
21	.56118	32	.43882	.59205	38	.40795	.03088	5	.96912	39
22	.56150	32	.43850	.59243	37	.40757	.03093	4	.96907	38
23	.56182	33	.43818	.59280	37	.40720	.03097	5	.96903	37
24	.56215	32	.43785	.59317	37	.40683	.03102	5	.96898	36
25	9.56247	32	10.43753	9.59354	37	10.40646	10.03107	5	9.96893	35
26	.56279	32	.43721	.59391	38	.40609	.03112	5	.96888	34
27	.56311	32	.43689	.59429	37	.40571	.03117	5	.96883	33
28	.56343	32	.43657	.59466	37	.40534	.03122	5	.96878	32
29	.56375	33	.43625	.59503	37	.40497	.03127	5	.96873	31
30	9.56408	32	10.43592	9.59540	37	10.40460	10.03132	5	9.96868	30
31	.56440	32	.43560	.59577	37	.40423	.03137	5	.96863	29
32	.56472	32	.43528	.59614	37	.40386	.03142	5	.96858	28
33	.56504	32	.43496	.59651	37	.40349	.03147	5	.96853	27
34	.56536	32	.43464	.59688	37	.40312	.03152	5	.96848	26
35	9.56568	31	10.43432	9.59725	37	10.40275	10.03157	5	9.96843	25
36	.56599	32	.43401	.59762	37	.40238	.03162	5	.96838	24
37	.56631	32	.43369	.59799	36	.40201	.03167	5	.96833	23
38	.56663	32	.43337	.59835	37	.40165	.03172	5	.96828	22
39	.56695	32	.43305	.59872	37	.40128	.03177	5	.96823	21
40	9.56727	32	10.43273	9.59909	37	10.40091	10.03182	5	9.96818	20
41	.56759	31	.43241	.59946	37	.40054	.03187	5	.96813	19
42	.56790	32	.43210	.59983	36	.40017	.03192	5	.96808	18
43	.56822	32	.43178	.60019	37	.39981	.03197	5	.96803	17
44	.56854	32	.43146	.60056	37	.39944	.03202	5	.96798	16
45	9.56886	31	10.43114	9.60093	37	10.39907	10.03207	5	9.96793	15
46	.56917	32	.43083	.60130	36	.39870	.03212	5	.96788	14
47	.56949	31	.43051	.60166	37	.39834	.03217	5	.96783	13
48	.56980	32	.43020	.60203	37	.39797	.03222	6	.96778	12
49	.57012	32	.42988	.60240	36	.39760	.03228	5	.96772	11
50	9.57044	31	10.42956	9.60276	37	10.39724	10.03233	5	9.96767	10
51	.57075	32	.42925	.60313	36	.39687	.03238	5	.96762	9
52	.57107	31	.42893	.60349	37	.39651	.03243	5	.96757	8
53	.57138	31	.42862	.60386	36	.39614	.03248	5	.96752	7
54	.57169	32	.42831	.60422	37	.39578	.03253	5	.96747	6
55	9.57201	31	10.42799	9.60459	36	10.39541	10.03258	5	9.96742	5
56	.57232	32	.42768	.60495	37	.39505	.03263	5	.96737	4
57	.57264	31	.42736	.60532	36	.39468	.03268	5	.96732	3
58	.57295	31	.42705	.60568	37	.39432	.03273	5	.96727	2
59	.57326	32	.42674	.60605	36	.39395	.03278	5	.96722	1
60	9.57358	36	10.42642	9.60641	36	10.39359	10.03283	5	9.96717	0
111° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 68°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

22° ↓ ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 157° ↓ ′
0	9.57358	31	10.42642	9.60641	36	10.39359	10.03283	6	9.96717	60
1	.57389	31	.42611	.60677	37	.39323	.03289	5	.96711	59
2	.57420	31	.42580	.60714	36	.39286	.03294	5	.96706	58
3	.57451	31	.42549	.60750	36	.39250	.03299	5	.96701	57
4	.57482	32	.42518	.60786	37	.39214	.03304	5	.96696	56
5	9.57514	31	10.42486	9.60823	36	10.39177	10.03309	5	9.96691	55
6	.57545	31	.42455	.60859	36	.39141	.03314	5	.96686	54
7	.57576	31	.42424	.60895	36	.39105	.03319	5	.96681	53
8	.57607	31	.42393	.60931	36	.39069	.03324	6	.96676	52
9	.57638	31	.42362	.60967	37	.39033	.03330	5	.96670	51
10	9.57669	31	10.42331	9.61004	36	10.38996	10.03335	5	9.96665	50
11	.57700	31	.42300	.61040	36	.38960	.03340	5	.96660	49
12	.57731	31	.42269	.61076	36	.38924	.03345	5	.96655	48
13	.57762	31	.42238	.61112	36	.38888	.03350	5	.96650	47
14	.57793	31	.42207	.61148	36	.38852	.03355	5	.96645	46
15	9.57824	31	10.42176	9.61184	36	10.38816	10.03360	6	9.96640	45
16	.57855	30	.42145	.61220	36	.38780	.03366	5	.96634	44
17	.57885	31	.42115	.61256	36	.38744	.03371	5	.96629	43
18	.57916	31	.42084	.61292	36	.38708	.03376	5	.96624	42
19	.57947	31	.42053	.61328	36	.38672	.03381	5	.96619	41
20	9.57978	30	10.42022	9.61364	36	10.38636	10.03386	6	9.96614	40
21	.58008	31	.41992	.61400	36	.38600	.03392	5	.96608	39
22	.58039	31	.41961	.61436	36	.38564	.03397	5	.96603	38
23	.58070	31	.41930	.61472	36	.38528	.03402	5	.96598	37
24	.58101	30	.41899	.61508	36	.38492	.03407	5	.96593	36
25	9.58131	31	10.41869	9.61544	35	10.38456	10.03412	6	9.96588	35
26	.58162	30	.41838	.61579	36	.38421	.03418	5	.96582	34
27	.58192	31	.41808	.61615	36	.38385	.03423	5	.96577	33
28	.58223	30	.41777	.61651	36	.38349	.03428	5	.96572	32
29	.58253	31	.41747	.61687	35	.38313	.03433	5	.96567	31
30	9.58284	30	10.41716	9.61722	36	10.38278	10.03438	6	9.96562	30
31	.58314	31	.41686	.61758	36	.38242	.03444	5	.96556	29
32	.58345	30	.41655	.61794	36	.38206	.03449	5	.96551	28
33	.58375	31	.41625	.61830	35	.38170	.03454	5	.96546	27
34	.58406	30	.41594	.61865	36	.38135	.03459	6	.96541	26
35	9.58436	31	10.41564	9.61901	35	10.38099	10.03465	5	9.96535	25
36	.58467	30	.41533	.61936	36	.38064	.03470	5	.96530	24
37	.58497	30	.41503	.61972	36	.38028	.03475	5	.96525	23
38	.58527	30	.41473	.62008	35	.37992	.03480	6	.96520	22
39	.58557	31	.41443	.62043	36	.37957	.03486	5	.96514	21
40	9.58588	30	10.41412	9.62079	35	10.37921	10.03491	5	9.96509	20
41	.58618	30	.41382	.62114	36	.37886	.03496	6	.96504	19
42	.58648	30	.41352	.62150	35	.37850	.03502	5	.96498	18
43	.58678	31	.41322	.62185	36	.37815	.03507	5	.96493	17
44	.58709	30	.41291	.62221	35	.37779	.03512	5	.96488	16
45	9.58739	30	10.41261	9.62256	36	10.37744	10.03517	6	9.96483	15
46	.58769	30	.41231	.62292	35	.37708	.03523	5	.96477	14
47	.58799	30	.41201	.62327	35	.37673	.03528	5	.96472	13
48	.58829	30	.41171	.62362	36	.37638	.03533	6	.96467	12
49	.58859	30	.41141	.62398	35	.37602	.03539	5	.96461	11
50	9.58889	30	10.41111	9.62433	35	10.37567	10.03544	5	9.96456	10
51	.58919	30	.41081	.62468	36	.37532	.03549	6	.96451	9
52	.58949	30	.41051	.62504	35	.37496	.03555	5	.96445	8
53	.58979	30	.41021	.62539	35	.37461	.03560	5	.96440	7
54	.59009	30	.40991	.62574	35	.37426	.03565	6	.96435	6
55	9.59039	30	10.40961	9.62609	36	10.37391	10.03571	5	9.96429	5
56	.59069	29	.40931	.62645	35	.37355	.03576	5	.96424	4
57	.59098	30	.40902	.62680	35	.37320	.03581	6	.96419	3
58	.59128	30	.40872	.62715	35	.37285	.03587	5	.96413	2
59	.59158	30	.40842	.62750	35	.37250	.03592	5	.96408	1
60	9.59188		10.40812	9.62785		10.37215	10.03597		9.96403	0
↑ 112°	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← ↑ 67°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

23° ↓ ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 156° ↓ ′
0	9.59188	30	10.40812	9.62785	35	10.37215	10.03597	6	9.96403	60
1	.59218	29	.40782	.62820	35	.37180	.03603	5	.96397	59
2	.59247	30	.40753	.62855	35	.37145	.03608	5	.96392	58
3	.59277	30	.40723	.62890	36	.37110	.03613	6	.96387	57
4	.59307	29	.40693	.62926	35	.37074	.03619	5	.96381	56
5	9.59336	30	10.40664	9.62961	35	10.37039	10.03624	6	9.96376	55
6	.59366	30	.40634	.62996	35	.37004	.03630	5	.96370	54
7	.59396	29	.40604	.63031	35	.36969	.03635	5	.96365	53
8	.59425	30	.40575	.63066	35	.36934	.03640	6	.96360	52
9	.59455	29	.40545	.63101	34	.36899	.03646	5	.96354	51
10	9.59484	30	10.40516	9.63135	35	10.36865	10.03651	6	9.96349	50
11	.59514	29	.40486	.63170	35	.36830	.03657	5	.96343	49
12	.59543	30	.40457	.63205	35	.36795	.03662	5	.96338	48
13	.59573	29	.40427	.63240	35	.36760	.03667	6	.96333	47
14	.59602	30	.40398	.63275	35	.36725	.03673	5	.96327	46
15	9.59632	29	10.40368	9.63310	35	10.36690	10.03678	6	9.96322	45
16	.59661	29	.40339	.63345	34	.36655	.03684	5	.96316	44
17	.59690	30	.40310	.63379	35	.36621	.03689	6	.96311	43
18	.59720	29	.40280	.63414	35	.36586	.03695	5	.96305	42
19	.59749	29	.40251	.63449	35	.36551	.03700	6	.96300	41
20	9.59778	30	10.40222	9.63484	35	10.36516	10.03706	5	9.96294	40
21	.59808	29	.40192	.63519	34	.36481	.03711	5	.96289	39
22	.59837	29	.40163	.63553	35	.36447	.03716	6	.96284	38
23	.59866	29	.40134	.63588	35	.36412	.03722	5	.96278	37
24	.59895	29	.40105	.63623	35	.36377	.03727	6	.96273	36
25	9.59924	30	10.40076	9.63657	34	10.36343	10.03733	5	9.96267	35
26	.59954	29	.40046	.63692	35	.36308	.03738	6	.96262	34
27	.59983	29	.40017	.63726	34	.36274	.03744	5	.96256	33
28	.60012	29	.39988	.63761	35	.36239	.03749	6	.96251	32
29	.60041	29	.39959	.63796	35	.36204	.03755	5	.96245	31
30	9.60070	29	10.39930	9.63830	34	10.36170	10.03760	6	9.96240	30
31	.60099	29	.39901	.63865	35	.36135	.03766	5	.96234	29
32	.60128	29	.39872	.63899	34	.36101	.03771	6	.96229	28
33	.60157	29	.39843	.63934	35	.36066	.03777	5	.96223	27
34	.60186	29	.39814	.63968	34	.36032	.03782	6	.96218	26
35	9.60215	29	10.39785	9.64003	35	10.35997	10.03788	5	9.96212	25
36	.60244	29	.39756	.64037	34	.35963	.03793	6	.96207	24
37	.60273	29	.39727	.64072	35	.35928	.03799	5	.96201	23
38	.60302	29	.39698	.64106	34	.35894	.03804	6	.96196	22
39	.60331	28	.39669	.64140	35	.35860	.03810	5	.96190	21
40	9.60359	29	10.39641	9.64175	34	10.35825	10.03815	6	9.96185	20
41	.60388	29	.39612	.64209	34	.35791	.03821	5	.96179	19
42	.60417	29	.39583	.64243	35	.35757	.03826	6	.96174	18
43	.60446	28	.39554	.64278	34	.35722	.03832	6	.96168	17
44	.60474	29	.39526	.64312	34	.35688	.03838	5	.96162	16
45	9.60503	29	10.39497	9.64346	35	10.35654	10.03843	6	9.96157	15
46	.60532	29	.39468	.64381	34	.35619	.03849	5	.96151	14
47	.60561	28	.39439	.64415	34	.35585	.03854	6	.96146	13
48	.60589	29	.39411	.64449	34	.35551	.03860	5	.96140	12
49	.60618	28	.39382	.64483	34	.35517	.03865	6	.96135	11
50	9.60646	29	10.39354	9.64517	35	10.35483	10.03871	6	9.96129	10
51	.60675	29	.39325	.64552	34	.35448	.03877	5	.96123	9
52	.60704	28	.39296	.64586	34	.35414	.03882	6	.96118	8
53	.60732	29	.39268	.64620	34	.35380	.03888	5	.96112	7
54	.60761	28	.39239	.64654	34	.35346	.03893	6	.96107	6
55	9.60789	29	10.39211	9.64688	34	10.35312	10.03899	6	9.96101	5
56	.60818	28	.39182	.64722	34	.35278	.03905	5	.96095	4
57	.60846	29	.39154	.64756	34	.35244	.03910	6	.96090	3
58	.60875	28	.39125	.64790	34	.35210	.03916	5	.96084	2
59	.60903	28	.39097	.64824	34	.35176	.03921	6	.96079	1
60	9.60931		10.39069	9.64858		10.35142	10.03927		9.96073	0
↑ 113°	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← ↑ 66°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

24° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 155° ′
0	9.60931	29	10.39069	9.64858	34	10.35142	10.03927	6	9.96073	60
1	.60960	28	.39040	.64892	34	.35108	.03933	5	.96067	59
2	.60988	28	.39012	.64926	34	.35074	.03938	6	.96062	58
3	.61016	29	.38984	.64960	34	.35040	.03944	6	.96056	57
4	.61045	28	.38955	.64994	34	.35006	.03950	5	.96050	56
5	9.61073	28	10.38927	9.65028	34	10.34972	10.03955	6	9.96045	55
6	.61101	28	.38899	.65062	34	.34938	.03961	5	.96039	54
7	.61129	29	.38871	.65096	34	.34904	.03966	6	.96034	53
8	.61158	28	.38842	.65130	34	.34870	.03972	6	.96028	52
9	.61186	28	.38814	.65164	33	.34836	.03978	5	.96022	51
10	9.61214	28	10.38786	9.65197	34	10.34803	10.03983	6	9.96017	50
11	.61242	28	.38758	.65231	34	.34769	.03989	6	.96011	49
12	.61270	28	.38730	.65265	34	.34735	.03995	5	.96005	48
13	.61298	28	.38702	.65299	34	.34701	.04000	6	.96000	47
14	.61326	28	.38674	.65333	33	.34667	.04006	6	.95994	46
15	9.61354	28	10.38646	9.65366	34	10.34634	10.04012	6	9.95988	45
16	.61382	29	.38618	.65400	34	.34600	.04018	5	.95982	44
17	.61411	27	.38589	.65434	33	.34566	.04023	6	.95977	43
18	.61438	28	.38562	.65467	34	.34533	.04029	6	.95971	42
19	.61466	28	.38534	.65501	34	.34499	.04035	5	.95965	41
20	9.61494	28	10.38506	9.65535	33	10.34465	10.04040	6	9.95960	40
21	.61522	28	.38478	.65568	34	.34432	.04046	6	.95954	39
22	.61550	28	.38450	.65602	34	.34398	.04052	6	.95948	38
23	.61578	28	.38422	.65636	33	.34364	.04058	5	.95942	37
24	.61606	28	.38394	.65669	34	.34331	.04063	6	.95937	36
25	9.61634	28	10.38366	9.65703	33	10.34297	10.04069	6	9.95931	35
26	.61662	27	.38338	.65736	34	.34264	.04075	5	.95925	34
27	.61689	28	.38311	.65770	33	.34230	.04080	6	.95920	33
28	.61717	28	.38283	.65803	34	.34197	.04086	6	.95914	32
29	.61745	28	.38255	.65837	33	.34163	.04092	6	.95908	31
30	9.61773	27	10.38227	9.65870	34	10.34130	10.04098	5	9.95902	30
31	.61800	28	.38200	.65904	33	.34096	.04103	6	.95897	29
32	.61828	28	.38172	.65937	34	.34063	.04109	6	.95891	28
33	.61856	27	.38144	.65971	33	.34029	.04115	6	.95885	27
34	.61883	28	.38117	.66004	34	.33996	.04121	6	.95879	26
35	9.61911	28	10.38089	9.66038	33	10.33962	10.04127	5	9.95873	25
36	.61939	27	.38061	.66071	33	.33929	.04132	6	.95868	24
37	.61966	28	.38034	.66104	34	.33896	.04138	6	.95862	23
38	.61994	27	.38006	.66138	33	.33862	.04144	6	.95856	22
39	.62021	28	.37979	.66171	33	.33829	.04150	6	.95850	21
40	9.62049	27	10.37951	9.66204	34	10.33796	10.04156	5	9.95844	20
41	.62076	28	.37924	.66238	33	.33762	.04161	6	.95839	19
42	.62104	27	.37896	.66271	33	.33729	.04167	6	.95833	18
43	.62131	28	.37869	.66304	33	.33696	.04173	6	.95827	17
44	.62159	27	.37841	.66337	34	.33663	.04179	6	.95821	16
45	9.62186	28	10.37814	9.66371	33	10.33629	10.04185	5	9.95815	15
46	.62214	27	.37786	.66404	33	.33596	.04190	6	.95810	14
47	.62241	27	.37759	.66437	33	.33563	.04196	6	.95804	13
48	.62268	28	.37732	.66470	33	.33530	.04202	6	.95798	12
49	.62296	27	.37704	.66503	34	.33497	.04208	6	.95792	11
50	9.62323	27	10.37677	9.66537	33	10.33463	10.04214	6	9.95786	10
51	.62350	27	.37650	.66570	33	.33430	.04220	5	.95780	9
52	.62377	28	.37623	.66603	33	.33397	.04225	6	.95775	8
53	.62405	27	.37595	.66636	33	.33364	.04231	6	.95769	7
54	.62432	27	.37568	.66669	33	.33331	.04237	6	.95763	6
55	9.62459	27	10.37541	9.66702	33	10.33298	10.04243	6	9.95757	5
56	.62486	27	.37514	.66735	33	.33265	.04249	6	.95751	4
57	.62513	28	.37487	.66768	33	.33232	.04255	6	.95745	3
58	.62541	27	.37459	.66801	33	.33199	.04261	6	.95739	2
59	.62568	27	.37432	.66834	33	.33166	.04267	5	.95733	1
60	9.62595		10.37405	9.66867		10.33133	10.04272		9.95728	0
114° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 65°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

25° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 154° ′
0	9.62595	27	10.37405	9.66867	33	10.33133	10.04272	6	9.95728	60
1	.62622	27	.37378	.66900	33	.33100	.04278	6	.95722	59
2	.62649	27	.37351	.66933	33	.33067	.04284	6	.95716	58
3	.62676	27	.37324	.66966	33	.33034	.04290	6	.95710	57
4	.62703	27	.37297	.66999	33	.33001	.04296	6	.95704	56
5	9.62730	27	10.37270	9.67032	33	10.32968	10.04302	6	9.95698	55
6	.62757	27	.37243	.67065	33	.32935	.04308	6	.95692	54
7	.62784	27	.37216	.67098	33	.32902	.04314	6	.95686	53
8	.62811	27	.37189	.67131	32	.32869	.04320	6	.95680	52
9	.62838	27	.37162	.67163	33	.32837	.04326	6	.95674	51
10	9.62865	27	10.37135	9.67196	33	10.32804	10.04332	5	9.95668	50
11	.62892	26	.37108	.67229	33	.32771	.04337	6	.95663	49
12	.62918	27	.37082	.67262	33	.32738	.04343	6	.95657	48
13	.62945	27	.37055	.67295	32	.32705	.04349	6	.95651	47
14	.62972	27	.37028	.67327	33	.32673	.04355	6	.95645	46
15	9.62999	27	10.37001	9.67360	33	10.32640	10.04361	6	9.95639	45
16	.63026	26	.36974	.67393	33	.32607	.04367	6	.95633	44
17	.63052	27	.36948	.67426	32	.32574	.04373	6	.95627	43
18	.63079	27	.36921	.67458	33	.32542	.04379	6	.95621	42
19	.63106	27	.36894	.67491	33	.32509	.04385	6	.95615	41
20	9.63133	26	10.36867	9.67524	32	10.32476	10.04391	6	9.95609	40
21	.63159	27	.36841	.67556	33	.32444	.04397	6	.95603	39
22	.63186	27	.36814	.67589	33	.32411	.04403	6	.95597	38
23	.63213	26	.36787	.67622	32	.32378	.04409	6	.95591	37
24	.63239	27	.36761	.67654	33	.32346	.04415	6	.95585	36
25	9.63266	26	10.36734	9.67687	32	10.32313	10.04421	6	9.95579	35
26	.63292	27	.36708	.67719	33	.32281	.04427	6	.95573	34
27	.63319	26	.36681	.67752	33	.32248	.04433	6	.95567	33
28	.63345	27	.36655	.67785	32	.32215	.04439	6	.95561	32
29	.63372	26	.36628	.67817	33	.32183	.04445	6	.95555	31
30	9.63398	27	10.36602	9.67850	32	10.32150	10.04451	6	9.95549	30
31	.63425	26	.36575	.67882	33	.32118	.04457	6	.95543	29
32	.63451	27	.36549	.67915	32	.32085	.04463	6	.95537	28
33	.63478	26	.36522	.67947	33	.32053	.04469	6	.95531	27
34	.63504	27	.36496	.67980	32	.32020	.04475	6	.95525	26
35	9.63531	26	10.36469	9.68012	32	10.31988	10.04481	6	9.95519	25
36	.63557	26	.36443	.68044	33	.31956	.04487	6	.95513	24
37	.63583	27	.36417	.68077	32	.31923	.04493	7	.95507	23
38	.63610	26	.36390	.68109	33	.31891	.04500	6	.95500	22
39	.63636	26	.36364	.68142	32	.31858	.04506	6	.95494	21
40	9.63662	27	10.36338	9.68174	32	10.31826	10.04512	6	9.95488	20
41	.63689	26	.36311	.68206	33	.31794	.04518	6	.95482	19
42	.63715	26	.36285	.68239	32	.31761	.04524	6	.95476	18
43	.63741	26	.36259	.68271	32	.31729	.04530	6	.95470	17
44	.63767	27	.36233	.68303	33	.31697	.04536	6	.95464	16
45	9.63794	26	10.36206	9.68336	32	10.31664	10.04542	6	9.95458	15
46	.63820	26	.36180	.68368	32	.31632	.04548	6	.95452	14
47	.63846	26	.36154	.68400	32	.31600	.04554	6	.95446	13
48	.63872	26	.36128	.68432	33	.31568	.04560	6	.95440	12
49	.63898	26	.36102	.68465	32	.31535	.04566	7	.95434	11
50	9.63924	26	10.36076	9.68497	32	10.31503	10.04573	6	9.95427	10
51	.63950	26	.36050	.68529	32	.31471	.04579	6	.95421	9
52	.63976	26	.36024	.68561	32	.31439	.04585	6	.95415	8
53	.64002	26	.35998	.68593	33	.31407	.04591	6	.95409	7
54	.64028	26	.35972	.68626	32	.31374	.04597	6	.95403	6
55	9.64054	26	10.35946	9.68658	32	10.31342	10.04603	6	9.95397	5
56	.64080	26	.35920	.68690	32	.31310	.04609	7	.95391	4
57	.64106	26	.35894	.68722	32	.31278	.04616	6	.95384	3
58	.64132	26	.35868	.68754	32	.31246	.04622	6	.95378	2
59	.64158	26	.35842	.68786	32	.31214	.04628	6	.95372	1
60	9.64184		10.35816	9.68818		10.31182	10.04634		9.95366	0
115° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 64°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

26° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 153° ′
0	9.64184	26	10.35816	9.68818	32	10.31182	10.04634	6	9.95366	60
1	.64210	26	.35790	.68850	32	.31150	.04640	6	.95360	59
2	.64236	26	.35764	.68882	32	.31118	.04646	6	.95354	58
3	.64262	26	.35738	.68914	32	.31086	.04652	7	.95348	57
4	.64288	25	.35712	.68946	32	.31054	.04659	6	.95341	56
5	9.64313	26	10.35687	9.68978	32	10.31022	10.04665	6	9.95335	55
6	.64339	26	.35661	.69010	32	.30990	.04671	6	.95329	54
7	.64365	26	.35635	.69042	32	.30958	.04677	6	.95323	53
8	.64391	26	.35609	.69074	32	.30926	.04683	7	.95317	52
9	.64417	25	.35583	.69106	32	.30894	.04690	6	.95310	51
10	9.64442	26	10.35558	9.69138	32	10.30862	10.04696	6	9.95304	50
11	.64468	26	.35532	.69170	32	.30830	.04702	6	.95298	49
12	.64494	25	.35506	.69202	32	.30798	.04708	6	.95292	48
13	.64519	26	.35481	.69234	32	.30766	.04714	7	.95286	47
14	.64545	26	.35455	.69266	32	.30734	.04721	6	.95279	46
15	9.64571	25	10.35429	9.69298	31	10.30702	10.04727	6	9.95273	45
16	.64596	26	.35404	.69329	32	.30671	.04733	6	.95267	44
17	.64622	25	.35378	.69361	32	.30639	.04739	7	.95261	43
18	.64647	26	.35353	.69393	32	.30607	.04746	6	.95254	42
19	.64673	25	.35327	.69425	32	.30575	.04752	6	.95248	41
20	9.64698	26	10.35302	9.69457	31	10.30543	10.04758	6	9.95242	40
21	.64724	25	.35276	.69488	32	.30512	.04764	7	.95236	39
22	.64749	26	.35251	.69520	32	.30480	.04771	6	.95229	38
23	.64775	25	.35225	.69552	32	.30448	.04777	6	.95223	37
24	.64800	25	.35200	.69584	32	.30416	.04783	6	.95217	36
25	9.64826	26	10.35174	9.69615	31	10.30385	10.04789	6	9.95211	35
26	.64851	25	.35149	.69647	32	.30353	.04796	7	.95204	34
27	.64877	26	.35123	.69679	32	.30321	.04802	6	.95198	33
28	.64902	25	.35098	.69710	31	.30290	.04808	6	.95192	32
29	.64927	25	.35073	.69742	32	.30258	.04815	7	.95185	31
30	9.64953	26	10.35047	9.69774	32	10.30226	10.04821	6	9.95179	30
31	.64978	25	.35022	.69805	31	.30195	.04827	6	.95173	29
32	.65003	25	.34997	.69837	32	.30163	.04833	7	.95167	28
33	.65029	26	.34971	.69868	31	.30132	.04840	6	.95160	27
34	.65054	25	.34946	.69900	32	.30100	.04846	6	.95154	26
35	9.65079	25	10.34921	9.69932	32	10.30068	10.04852	7	9.95148	25
36	.65104	25	.34896	.69963	31	.30037	.04859	6	.95141	24
37	.65130	26	.34870	.69995	32	.30005	.04865	6	.95135	23
38	.65155	25	.34845	.70026	31	.29974	.04871	7	.95129	22
39	.65180	25	.34820	.70058	32	.29942	.04878	6	.95122	21
40	9.65205	25	10.34795	9.70089	31	10.29911	10.04884	6	9.95116	20
41	.65230	25	.34770	.70121	32	.29879	.04890	7	.95110	19
42	.65255	26	.34745	.70152	31	.29848	.04897	6	.95103	18
43	.65281	25	.34719	.70184	32	.29816	.04903	7	.95097	17
44	.65306	25	.34694	.70215	31	.29785	.04910	6	.95090	16
45	9.65331	25	10.34669	9.70247	32	10.29753	10.04916	6	9.95084	15
46	.65356	25	.34644	.70278	31	.29722	.04922	7	.95078	14
47	.65381	25	.34619	.70309	31	.29691	.04929	6	.95071	13
48	.65406	25	.34594	.70341	32	.29659	.04935	6	.95065	12
49	.65431	25	.34569	.70372	31	.29628	.04941	7	.95059	11
50	9.65456	25	10.34544	9.70404	32	10.29596	10.04948	6	9.95052	10
51	.65481	25	.34519	.70435	31	.29565	.04954	7	.95046	9
52	.65506	25	.34494	.70466	31	.29534	.04961	6	.95039	8
53	.65531	25	.34469	.70498	32	.29502	.04967	6	.95033	7
54	.65556	24	.34444	.70529	31	.29471	.04973	7	.95027	6
55	9.65580	25	10.34420	9.70560	31	10.29440	10.04980	6	9.95020	5
56	.65605	25	.34395	.70592	32	.29408	.04986	7	.95014	4
57	.65630	25	.34370	.70623	31	.29377	.04993	6	.95007	3
58	.65655	25	.34345	.70654	31	.29346	.04999	6	.95001	2
59	.65680	25	.34320	.70685	31	.29315	.05005	7	.94995	1
60	9.65705		10.34295	9.70717	32	10.29283	10.05012		9.94988	0
116° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 63°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

27° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 152° ′
0	9.65705	24	10.34295	9.70717	31	10.29283	10.05012	6	9.94988	60
1	.65729	25	.34271	.70748	31	.29252	.05018	7	.94982	59
2	.65754	25	.34246	.70779	31	.29221	.05025	6	.94975	58
3	.65779	25	.34221	.70810	31	.29190	.05031	7	.94969	57
4	.65804	24	.34196	.70841	32	.29159	.05038	6	.94962	56
5	9.65828	25	10.34172	9.70873	31	10.29127	10.05044	7	9.94956	55
6	.65853	25	.34147	.70904	31	.29096	.05051	6	.94949	54
7	.65878	24	.34122	.70935	31	.29065	.05057	7	.94943	53
8	.65902	25	.34098	.70966	31	.29034	.05064	6	.94936	52
9	.65927	25	.34073	.70997	31	.29003	.05070	7	.94930	51
10	9.65952	24	10.34048	9.71028	31	10.28972	10.05077	6	9.94923	50
11	.65976	25	.34024	.71059	31	.28941	.05083	6	.94917	49
12	.66001	24	.33999	.71090	31	.28910	.05089	7	.94911	48
13	.66025	25	.33975	.71121	32	.28879	.05096	6	.94904	47
14	.66050	25	.33950	.71153	31	.28847	.05102	7	.94898	46
15	9.66075	24	10.33925	9.71184	31	10.28816	10.05109	6	9.94891	45
16	.66099	25	.33901	.71215	31	.28785	.05115	7	.94885	44
17	.66124	24	.33876	.71246	31	.28754	.05122	7	.94878	43
18	.66148	25	.33852	.71277	31	.28723	.05129	6	.94871	42
19	.66173	24	.33827	.71308	31	.28692	.05135	7	.94865	41
20	9.66197	24	10.33803	9.71339	31	10.28661	10.05142	6	9.94858	40
21	.66221	25	.33779	.71370	31	.28630	.05148	7	.94852	39
22	.66246	24	.33754	.71401	30	.28599	.05155	6	.94845	38
23	.66270	25	.33730	.71431	31	.28569	.05161	7	.94839	37
24	.66295	24	.33705	.71462	31	.28538	.05168	6	.94832	36
25	9.66319	24	10.33681	9.71493	31	10.28507	10.05174	7	9.94826	35
26	.66343	25	.33657	.71524	31	.28476	.05181	6	.94819	34
27	.66368	24	.33632	.71555	31	.28445	.05187	7	.94813	33
28	.66392	24	.33608	.71586	31	.28414	.05194	7	.94806	32
29	.66416	25	.33584	.71617	31	.28383	.05201	6	.94799	31
30	9.66441	24	10.33559	9.71648	31	10.28352	10.05207	7	9.94793	30
31	.66465	24	.33535	.71679	30	.28321	.05214	6	.94786	29
32	.66489	24	.33511	.71709	31	.28291	.05220	7	.94780	28
33	.66513	24	.33487	.71740	31	.28260	.05227	6	.94773	27
34	.66537	25	.33463	.71771	31	.28229	.05233	7	.94767	26
35	9.66562	24	10.33438	9.71802	31	10.28198	10.05240	7	9.94760	25
36	.66586	24	.33414	.71833	30	.28167	.05247	6	.94753	24
37	.66610	24	.33390	.71863	31	.28137	.05253	7	.94747	23
38	.66634	24	.33366	.71894	31	.28106	.05260	6	.94740	22
39	.66658	24	.33342	.71925	30	.28075	.05266	7	.94734	21
40	9.66682	24	10.33318	9.71955	31	10.28045	10.05273	7	9.94727	20
41	.66706	25	.33294	.71986	31	.28014	.05280	6	.94720	19
42	.66731	24	.33269	.72017	31	.27983	.05286	7	.94714	18
43	.66755	24	.33245	.72048	30	.27952	.05293	7	.94707	17
44	.66779	24	.33221	.72078	31	.27922	.05300	6	.94700	16
45	9.66803	24	10.33197	9.72109	31	10.27891	10.05306	7	9.94694	15
46	.66827	24	.33173	.72140	30	.27860	.05313	7	.94687	14
47	.66851	24	.33149	.72170	31	.27830	.05320	6	.94680	13
48	.66875	24	.33125	.72201	30	.27799	.05326	7	.94674	12
49	.66899	23	.33101	.72231	31	.27769	.05333	7	.94667	11
50	9.66922	24	10.33078	9.72262	31	10.27738	10.05340	6	9.94660	10
51	.66946	24	.33054	.72293	30	.27707	.05346	7	.94654	9
52	.66970	24	.33030	.72323	31	.27677	.05353	7	.94647	8
53	.66994	24	.33006	.72354	30	.27646	.05360	6	.94640	7
54	.67018	24	.32982	.72384	31	.27616	.05366	7	.94634	6
55	9.67042	24	10.32958	9.72415	30	10.27585	10.05373	7	9.94627	5
56	.67066	24	.32934	.72445	31	.27555	.05380	6	.94620	4
57	.67090	23	.32910	.72476	30	.27524	.05386	7	.94614	3
58	.67113	24	.32887	.72506	31	.27494	.05393	7	.94607	2
59	.67137	24	.32863	.72537	30	.27463	.05400	7	.94600	1
60	9.67161		10.32839	9.72567		10.27433	10.05407		9.94593	0
117° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 62°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

28° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 151° ′
0	9.67161	24	10.32839	9.72567	31	10.27433	10.05407	6	9.94593	60
1	.67185	23	.32815	.72598	30	.27402	.05413	7	.94587	59
2	.67208	24	.32792	.72628	31	.27372	.05420	7	.94580	58
3	.67232	24	.32768	.72659	30	.27341	.05427	6	.94573	57
4	.67256	24	.32744	.72689	31	.27311	.05433	7	.94567	56
5	9.67280	23	10.32720	9.72720	30	10.27280	10.05440	7	9.94560	55
6	.67303	24	.32697	.72750	30	.27250	.05447	7	.94553	54
7	.67327	23	.32673	.72780	31	.27220	.05454	6	.94546	53
8	.67350	24	.32650	.72811	30	.27189	.05460	7	.94540	52
9	.67374	24	.32626	.72841	31	.27159	.05467	7	.94533	51
10	9.67398	23	10.32602	9.72872	30	10.27128	10.05474	7	9.94526	50
11	.67421	24	.32579	.72902	30	.27098	.05481	6	.94519	49
12	.67445	23	.32555	.72932	31	.27068	.05487	7	.94513	48
13	.67468	24	.32532	.72963	30	.27037	.05494	7	.94506	47
14	.67492	23	.32508	.72993	30	.27007	.05501	7	.94499	46
15	9.67515	24	10.32485	9.73023	31	10.26977	10.05508	7	9.94492	45
16	.67539	23	.32461	.73054	30	.26946	.05515	6	.94485	44
17	.67562	24	.32438	.73084	30	.26916	.05521	7	.94479	43
18	.67586	23	.32414	.73114	30	.26886	.05528	7	.94472	42
19	.67609	24	.32391	.73144	31	.26856	.05535	7	.94465	41
20	9.67633	23	10.32367	9.73175	30	10.26825	10.05542	7	9.94458	40
21	.67656	24	.32344	.73205	30	.26795	.05549	6	.94451	39
22	.67680	23	.32320	.73235	30	.26765	.05555	7	.94445	38
23	.67703	23	.32297	.73265	30	.26735	.05562	7	.94438	37
24	.67726	24	.32274	.73295	31	.26705	.05569	7	.94431	36
25	9.67750	23	10.32250	9.73326	30	10.26674	10.05576	7	9.94424	35
26	.67773	23	.32227	.73356	30	.26644	.05583	7	.94417	34
27	.67796	24	.32204	.73386	30	.26614	.05590	6	.94410	33
28	.67820	23	.32180	.73416	30	.26584	.05596	7	.94404	32
29	.67843	23	.32157	.73446	30	.26554	.05603	7	.94397	31
30	9.67866	24	10.32134	9.73476	31	10.26524	10.05610	7	9.94390	30
31	.67890	23	.32110	.73507	30	.26493	.05617	7	.94383	29
32	.67913	23	.32087	.73537	30	.26463	.05624	7	.94376	28
33	.67936	23	.32064	.73567	30	.26433	.05631	7	.94369	27
34	.67959	23	.32041	.73597	30	.26403	.05638	7	.94362	26
35	9.67982	24	10.32018	9.73627	30	10.26373	10.05645	6	9.94355	25
36	.68006	23	.31994	.73657	30	.26343	.05651	7	.94349	24
37	.68029	23	.31971	.73687	30	.26313	.05658	7	.94342	23
38	.68052	23	.31948	.73717	30	.26283	.05665	7	.94335	22
39	.68075	23	.31925	.73747	30	.26253	.05672	7	.94328	21
40	9.68098	23	10.31902	9.73777	30	10.26223	10.05679	7	9.94321	20
41	.68121	23	.31879	.73807	30	.26193	.05686	7	.94314	19
42	.68144	23	.31856	.73837	30	.26163	.05693	7	.94307	18
43	.68167	23	.31833	.73867	30	.26133	.05700	7	.94300	17
44	.68190	23	.31810	.73897	30	.26103	.05707	7	.94293	16
45	9.68213	24	10.31787	9.73927	30	10.26073	10.05714	7	9.94286	15
46	.68237	23	.31763	.73957	30	.26043	.05721	6	.94279	14
47	.68260	23	.31740	.73987	30	.26013	.05727	7	.94273	13
48	.68283	22	.31717	.74017	30	.25983	.05734	7	.94266	12
49	.68305	23	.31695	.74047	30	.25953	.05741	7	.94259	11
50	9.68328	23	10.31672	9.74077	30	10.25923	10.05748	7	9.94252	10
51	.68351	23	.31649	.74107	30	.25893	.05755	7	.94245	9
52	.68374	23	.31626	.74137	29	.25863	.05762	7	.94238	8
53	.68397	23	.31603	.74166	30	.25834	.05769	7	.94231	7
54	.68420	23	.31580	.74196	30	.25804	.05776	7	.94224	6
55	9.68443	23	10.31557	9.74226	30	10.25774	10.05783	7	9.94217	5
56	.68466	23	.31534	.74256	30	.25744	.05790	7	.94210	4
57	.68489	23	.31511	.74286	30	.25714	.05797	7	.94203	3
58	.68512	23	.31488	.74316	29	.25684	.05804	7	.94196	2
59	.68534	22	.31466	.74345	30	.25655	.05811	7	.94189	1
60	9.68557	23	10.31443	9.74375	30	10.25625	10.05818	7	9.94182	0
↑ 118° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← ↑ 61°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

29° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 150° ′
0	9.68557	23	10.31443	9.74375	30	10.25625	10.05818	7	9.94182	60
1	.68580	23	.31420	.74405	30	.25595	.05825	7	.94175	59
2	.68603	22	.31397	.74435	30	.25565	.05832	7	.94168	58
3	.68625	23	.31375	.74465	29	.25535	.05839	7	.94161	57
4	.68648	23	.31352	.74494	30	.25506	.05846	7	.94154	56
5	9.68671	23	10.31329	9.74524	30	10.25476	10.05853	7	9.94147	55
6	.68694	22	.31306	.74554	29	.25446	.05860	7	.94140	54
7	.68716	23	.31284	.74583	30	.25417	.05867	7	.94133	53
8	.68739	23	.31261	.74613	30	.25387	.05874	7	.94126	52
9	.68762	22	.31238	.74643	30	.25357	.05881	7	.94119	51
10	9.68784	23	10.31216	9.74673	29	10.25327	10.05888	7	9.94112	50
11	.68807	22	.31193	.74702	30	.25298	.05895	7	.94105	49
12	.68829	23	.31171	.74732	30	.25268	.05902	8	.94098	48
13	.68852	23	.31148	.74762	29	.25238	.05910	7	.94090	47
14	.68875	22	.31125	.74791	30	.25209	.05917	7	.94083	46
15	9.68897	23	10.31103	9.74821	30	10.25179	10.05924	7	9.94076	45
16	.68920	22	.31080	.74851	29	.25149	.05931	7	.94069	44
17	.68942	23	.31058	.74880	30	.25120	.05938	7	.94062	43
18	.68965	22	.31035	.74910	29	.25090	.05945	7	.94055	42
19	.68987	23	.31013	.74939	30	.25061	.05952	7	.94048	41
20	9.69010	22	10.30990	9.74969	29	10.25031	10.05959	7	9.94041	40
21	.69032	23	.30968	.74998	30	.25002	.05966	7	.94034	39
22	.69055	22	.30945	.75028	30	.24972	.05973	7	.94027	38
23	.69077	23	.30923	.75058	29	.24942	.05980	8	.94020	37
24	.69100	22	.30900	.75087	30	.24913	.05988	7	.94012	36
25	9.69122	22	10.30878	9.75117	29	10.24883	10.05995	7	9.94005	35
26	.69144	23	.30856	.75146	30	.24854	.06002	7	.93998	34
27	.69167	22	.30833	.75176	29	.24824	.06009	7	.93991	33
28	.69189	23	.30811	.75205	30	.24795	.06016	7	.93984	32
29	.69212	22	.30788	.75235	29	.24765	.06023	7	.93977	31
30	9.69234	22	10.30766	9.75264	30	10.24736	10.06030	7	9.93970	30
31	.69256	23	.30744	.75294	29	.24706	.06037	8	.93963	29
32	.69279	22	.30721	.75323	30	.24677	.06045	7	.93955	28
33	.69301	22	.30699	.75353	29	.24647	.06052	7	.93948	27
34	.69323	22	.30677	.75382	29	.24618	.06059	7	.93941	26
35	9.69345	23	10.30655	9.75411	30	10.24589	10.06066	7	9.93934	25
36	.69368	22	.30632	.75441	29	.24559	.06073	7	.93927	24
37	.69390	22	.30610	.75470	30	.24530	.06080	8	.93920	23
38	.69412	22	.30588	.75500	29	.24500	.06088	7	.93912	22
39	.69434	22	.30566	.75529	29	.24471	.06095	7	.93905	21
40	9.69456	23	10.30544	9.75558	30	10.24442	10.06102	7	9.93898	20
41	.69479	22	.30521	.75588	29	.24412	.06109	7	.93891	19
42	.69501	22	.30499	.75617	30	.24383	.06116	8	.93884	18
43	.69523	22	.30477	.75647	29	.24353	.06124	7	.93876	17
44	.69545	22	.30455	.75676	29	.24324	.06131	7	.93869	16
45	9.69567	22	10.30433	9.75705	30	10.24295	10.06138	7	9.93862	15
46	.69589	22	.30411	.75735	29	.24265	.06145	8	.93855	14
47	.69611	22	.30389	.75764	29	.24236	.06153	7	.93847	13
48	.69633	22	.30367	.75793	29	.24207	.06160	7	.93840	12
49	.69655	22	.30345	.75822	30	.24178	.06167	7	.93833	11
50	9.69677	22	10.30323	9.75852	29	10.24148	10.06174	7	9.93826	10
51	.69699	22	.30301	.75881	29	.24119	.06181	8	.93819	9
52	.69721	22	.30279	.75910	29	.24090	.06189	7	.93811	8
53	.69743	22	.30257	.75939	30	.24061	.06196	7	.93804	7
54	.69765	22	.30235	.75969	29	.24031	.06203	8	.93797	6
55	9.69787	22	10.30213	9.75998	29	10.24002	10.06211	7	9.93789	5
56	.69809	22	.30191	.76027	29	.23973	.06218	7	.93782	4
57	.69831	22	.30169	.76056	30	.23944	.06225	7	.93775	3
58	.69853	22	.30147	.76086	29	.23914	.06232	8	.93768	2
59	.69875	22	.30125	.76115	29	.23885	.06240	7	.93760	1
60	9.69897	22	10.30103	9.76144	29	10.23856	10.06247	7	9.93753	0
↑ 119° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← ↑ 60°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

30° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 149° ′
0	9.69897	22	10.30103	9.76144	29	10.23856	10.06247	7	9.93753	60
1	.69919	22	.30081	.76173	29	.23827	.06254	8	.93746	59
2	.69941	22	.30059	.76202	29	.23798	.06262	7	.93738	58
3	.69963	21	.30037	.76231	30	.23769	.06269	7	.93731	57
4	.69984	22	.30016	.76261	29	.23739	.06276	7	.93724	56
5	9.70006	22	10.29994	9.76290	29	10.23710	10.06283	8	9.93717	55
6	.70028	22	.29972	.76319	29	.23681	.06291	7	.93709	54
7	.70050	22	.29950	.76348	29	.23652	.06298	7	.93702	53
8	.70072	21	.29928	.76377	29	.23623	.06305	8	.93695	52
9	.70093	22	.29907	.76406	29	.23594	.06313	7	.93687	51
10	9.70115	22	10.29885	9.76435	29	10.23565	10.06320	7	9.93680	50
11	.70137	22	.29863	.76464	29	.23536	.06327	8	.93673	49
12	.70159	21	.29841	.76493	29	.23507	.06335	7	.93665	48
13	.70180	22	.29820	.76522	29	.23478	.06342	8	.93658	47
14	.70202	22	.29798	.76551	29	.23449	.06350	7	.93650	46
15	9.70224	21	10.29776	9.76580	29	10.23420	10.06357	7	9.93643	45
16	.70245	22	.29755	.76609	30	.23391	.06364	8	.93636	44
17	.70267	21	.29733	.76639	29	.23361	.06372	7	.93628	43
18	.70288	22	.29712	.76668	29	.23332	.06379	7	.93621	42
19	.70310	22	.29690	.76697	28	.23303	.06386	8	.93614	41
20	9.70332	21	10.29668	9.76725	29	10.23275	10.06394	7	9.93606	40
21	.70353	22	.29647	.76754	29	.23246	.06401	8	.93599	39
22	.70375	21	.29625	.76783	29	.23217	.06409	7	.93591	38
23	.70396	22	.29604	.76812	29	.23188	.06416	7	.93584	37
24	.70418	21	.29582	.76841	29	.23159	.06423	8	.93577	36
25	9.70439	22	10.29561	9.76870	29	10.23130	10.06431	7	9.93569	35
26	.70461	21	.29539	.76899	29	.23101	.06438	8	.93562	34
27	.70482	22	.29518	.76928	29	.23072	.06446	7	.93554	33
28	.70504	21	.29496	.76957	29	.23043	.06453	8	.93547	32
29	.70525	22	.29475	.76986	29	.23014	.06461	7	.93539	31
30	9.70547	21	10.29453	9.77015	29	10.22985	10.06468	7	9.93532	30
31	.70568	22	.29432	.77044	29	.22956	.06475	8	.93525	29
32	.70590	21	.29410	.77073	28	.22927	.06483	7	.93517	28
33	.70611	22	.29389	.77101	29	.22899	.06490	8	.93510	27
34	.70633	21	.29367	.77130	29	.22870	.06498	7	.93502	26
35	9.70654	21	10.29346	9.77159	29	10.22841	10.06505	8	9.93495	25
36	.70675	22	.29325	.77188	29	.22812	.06513	7	.93487	24
37	.70697	21	.29303	.77217	29	.22783	.06520	8	.93480	23
38	.70718	21	.29282	.77246	28	.22754	.06528	7	.93472	22
39	.70739	22	.29261	.77274	29	.22726	.06535	8	.93465	21
40	9.70761	21	10.29239	9.77303	29	10.22697	10.06543	7	9.93457	20
41	.70782	21	.29218	.77332	29	.22668	.06550	8	.93450	19
42	.70803	21	.29197	.77361	29	.22639	.06558	7	.93442	18
43	.70824	22	.29176	.77390	28	.22610	.06565	8	.93435	17
44	.70846	21	.29154	.77418	29	.22582	.06573	7	.93427	16
45	9.70867	21	10.29133	9.77447	29	10.22553	10.06580	8	9.93420	15
46	.70888	21	.29112	.77476	29	.22524	.06588	7	.93412	14
47	.70909	22	.29091	.77505	28	.22495	.06595	8	.93405	13
48	.70931	21	.29069	.77533	29	.22467	.06603	7	.93397	12
49	.70952	21	.29048	.77562	29	.22438	.06610	8	.93390	11
50	9.70973	21	10.29027	9.77591	28	10.22409	10.06618	7	9.93382	10
51	.70994	21	.29006	.77619	29	.22381	.06625	8	.93375	9
52	.71015	21	.28985	.77648	29	.22352	.06633	7	.93367	8
53	.71036	22	.28964	.77677	29	.22323	.06640	8	.93360	7
54	.71058	21	.28942	.77706	28	.22294	.06648	8	.93352	6
55	9.71079	21	10.28921	9.77734	29	10.22266	10.06656	7	9.93344	5
56	.71100	21	.28900	.77763	28	.22237	.06663	8	.93337	4
57	.71121	21	.28879	.77791	29	.22209	.06671	7	.93329	3
58	.71142	21	.28858	.77820	29	.22180	.06678	8	.93322	2
59	.71163	21	.28837	.77849	28	.22151	.06686	7	.93314	1
60	9.71184	21	10.28816	9.77877	28	10.22123	10.06693	7	9.93307	0
120° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 59°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

31° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 148° ′
0	9.71184	21	10.28816	9.77877	29	10.22123	10.06693	8	9.93307	60
1	.71205	21	.28795	.77906	29	.22094	.06701	8	.93299	59
2	.71226	21	.28774	.77935	28	.22065	.06709	7	.93291	58
3	.71247	21	.28753	.77963	29	.22037	.06716	8	.93284	57
4	.71268	21	.28732	.77992	28	.22008	.06724	7	.93276	56
5	9.71289	21	10.28711	9.78020	29	10.21980	10.06731	8	9.93269	55
6	.71310	21	.28690	.78049	28	.21951	.06739	8	.93261	54
7	.71331	21	.28669	.78077	29	.21923	.06747	7	.93253	53
8	.71352	21	.28648	.78106	29	.21894	.06754	8	.93246	52
9	.71373	20	.28627	.78135	28	.21865	.06762	8	.93238	51
10	9.71393	21	10.28607	9.78163	29	10.21837	10.06770	7	9.93230	50
11	.71414	21	.28586	.78192	28	.21808	.06777	8	.93223	49
12	.71435	21	.28565	.78220	29	.21780	.06785	8	.93215	48
13	.71456	21	.28544	.78249	28	.21751	.06793	7	.93207	47
14	.71477	21	.28523	.78277	29	.21723	.06800	8	.93200	46
15	9.71498	21	10.28502	9.78306	28	10.21694	10.06808	8	9.93192	45
16	.71519	20	.28481	.78334	29	.21666	.06816	7	.93184	44
17	.71539	21	.28461	.78363	28	.21637	.06823	8	.93177	43
18	.71560	21	.28440	.78391	28	.21609	.06831	8	.93169	42
19	.71581	21	.28419	.78419	29	.21581	.06839	7	.93161	41
20	9.71602	20	10.28398	9.78448	28	10.21552	10.06846	8	9.93154	40
21	.71622	21	.28378	.78476	29	.21524	.06854	8	.93146	39
22	.71643	21	.28357	.78505	28	.21495	.06862	7	.93138	38
23	.71664	21	.28336	.78533	29	.21467	.06869	8	.93131	37
24	.71685	20	.28315	.78562	28	.21438	.06877	8	.93123	36
25	9.71705	21	10.28295	9.78590	28	10.21410	10.06885	7	9.93115	35
26	.71726	21	.28274	.78618	29	.21382	.06892	8	.93108	34
27	.71747	20	.28253	.78647	28	.21353	.06900	8	.93100	33
28	.71767	21	.28233	.78675	29	.21325	.06908	8	.93092	32
29	.71788	21	.28212	.78704	28	.21296	.06916	7	.93084	31
30	9.71809	20	10.28191	9.78732	28	10.21268	10.06923	8	9.93077	30
31	.71829	21	.28171	.78760	29	.21240	.06931	8	.93069	29
32	.71850	20	.28150	.78789	28	.21211	.06939	8	.93061	28
33	.71870	21	.28130	.78817	28	.21183	.06947	7	.93053	27
34	.71891	20	.28109	.78845	29	.21155	.06954	8	.93046	26
35	9.71911	21	10.28089	9.78874	28	10.21126	10.06962	8	9.93038	25
36	.71932	20	.28068	.78902	28	.21098	.06970	8	.93030	24
37	.71952	21	.28048	.78930	29	.21070	.06978	8	.93022	23
38	.71973	21	.28027	.78959	28	.21041	.06986	7	.93014	22
39	.71994	20	.28006	.78987	28	.21013	.06993	8	.93007	21
40	9.72014	20	10.27986	9.79015	28	10.20985	10.07001	8	9.92999	20
41	.72034	21	.27966	.79043	29	.20957	.07009	8	.92991	19
42	.72055	20	.27945	.79072	28	.20928	.07017	7	.92983	18
43	.72075	21	.27925	.79100	28	.20900	.07024	8	.92976	17
44	.72096	20	.27904	.79128	28	.20872	.07032	8	.92968	16
45	9.72116	21	10.27884	9.79156	29	10.20844	10.07040	8	9.92960	15
46	.72137	20	.27863	.79185	28	.20815	.07048	8	.92952	14
47	.72157	20	.27843	.79213	28	.20787	.07056	8	.92944	13
48	.72177	21	.27823	.79241	28	.20759	.07064	7	.92936	12
49	.72198	20	.27802	.79269	28	.20731	.07071	8	.92929	11
50	9.72218	20	10.27782	9.79297	29	10.20703	10.07079	8	9.92921	10
51	.72238	21	.27762	.79326	28	.20674	.07087	8	.92913	9
52	.72259	20	.27741	.79354	28	.20646	.07095	8	.92905	8
53	.72279	20	.27721	.79382	28	.20618	.07103	8	.92897	7
54	.72299	21	.27701	.79410	28	.20590	.07111	8	.92889	6
55	9.72320	20	10.27680	9.79438	28	10.20562	10.07119	7	9.92881	5
56	.72340	20	.27660	.79466	29	.20534	.07126	8	.92874	4
57	.72360	21	.27640	.79495	28	.20505	.07134	8	.92866	3
58	.72381	20	.27619	.79523	28	.20477	.07142	8	.92858	2
59	.72401	20	.27599	.79551	28	.20449	.07150	8	.92850	1
60	9.72421	20	10.27579	9.79579	28	10.20421	10.07158	8	9.92842	0
121° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 58°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

32° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 147° ′
0	9.72421	20	10.27579	9.79579	28	10.20421	10.07158	8	9.92842	60
1	.72441	20	.27559	.79607	28	.20393	.07166	8	.92834	59
2	.72461	21	.27539	.79635	28	.20365	.07174	8	.92826	58
3	.72482	20	.27518	.79663	28	.20337	.07182	8	.92818	57
4	.72502	20	.27498	.79691	28	.20309	.07190	7	.92810	56
5	9.72522	20	10.27478	9.79719	28	10.20281	10.07197	8	9.92803	55
6	.72542	20	.27458	.79747	29	.20253	.07205	8	.92795	54
7	.72562	20	.27438	.79776	28	.20224	.07213	8	.92787	53
8	.72582	20	.27418	.79804	28	.20196	.07221	8	.92779	52
9	.72602	20	.27398	.79832	28	.20168	.07229	8	.92771	51
10	9.72622	21	10.27378	9.79860	28	10.20140	10.07237	8	9.92763	50
11	.72643	20	.27357	.79888	28	.20112	.07245	8	.92755	49
12	.72663	20	.27337	.79916	28	.20084	.07253	8	.92747	48
13	.72683	20	.27317	.79944	28	.20056	.07261	8	.92739	47
14	.72703	20	.27297	.79972	28	.20028	.07269	8	.92731	46
15	9.72723	20	10.27277	9.80000	28	10.20000	10.07277	8	9.92723	45
16	.72743	20	.27257	.80028	28	.19972	.07285	8	.92715	44
17	.72763	20	.27237	.80056	28	.19944	.07293	8	.92707	43
18	.72783	20	.27217	.80084	28	.19916	.07301	8	.92699	42
19	.72803	20	.27197	.80112	28	.19888	.07309	8	.92691	41
20	9.72823	20	10.27177	9.80140	28	10.19860	10.07317	8	9.92683	40
21	.72843	20	.27157	.80168	27	.19832	.07325	8	.92675	39
22	.72863	20	.27137	.80195	28	.19805	.07333	8	.92667	38
23	.72883	19	.27117	.80223	28	.19777	.07341	8	.92659	37
24	.72902	20	.27098	.80251	28	.19749	.07349	8	.92651	36
25	9.72922	20	10.27078	9.80279	28	10.19721	10.07357	8	9.92643	35
26	.72942	20	.27058	.80307	28	.19693	.07365	8	.92635	34
27	.72962	20	.27038	.80335	28	.19665	.07373	8	.92627	33
28	.72982	20	.27018	.80363	28	.19637	.07381	8	.92619	32
29	.73002	20	.26998	.80391	28	.19609	.07389	8	.92611	31
30	9.73022	19	10.26978	9.80419	28	10.19581	10.07397	8	9.92603	30
31	.73041	20	.26959	.80447	27	.19553	.07405	8	.92595	29
32	.73061	20	.26939	.80474	28	.19526	.07413	8	.92587	28
33	.73081	20	.26919	.80502	28	.19498	.07421	8	.92579	27
34	.73101	20	.26899	.80530	28	.19470	.07429	8	.92571	26
35	9.73121	19	10.26879	9.80558	28	10.19442	10.07437	8	9.92563	25
36	.73140	20	.26860	.80586	28	.19414	.07445	9	.92555	24
37	.73160	20	.26840	.80614	28	.19386	.07454	8	.92546	23
38	.73180	20	.26820	.80642	27	.19358	.07462	8	.92538	22
39	.73200	19	.26800	.80669	28	.19331	.07470	8	.92530	21
40	9.73219	20	10.26781	9.80697	28	10.19303	10.07478	8	9.92522	20
41	.73239	20	.26761	.80725	28	.19275	.07486	8	.92514	19
42	.73259	19	.26741	.80753	28	.19247	.07494	8	.92506	18
43	.73278	20	.26722	.80781	27	.19219	.07502	8	.92498	17
44	.73298	20	.26702	.80808	28	.19192	.07510	8	.92490	16
45	9.73318	19	10.26682	9.80836	28	10.19164	10.07518	9	9.92482	15
46	.73337	20	.26663	.80864	28	.19136	.07527	8	.92473	14
47	.73357	20	.26643	.80892	27	.19108	.07535	8	.92465	13
48	.73377	19	.26623	.80919	28	.19081	.07543	8	.92457	12
49	.73396	20	.26604	.80947	28	.19053	.07551	8	.92449	11
50	9.73416	19	10.26584	9.80975	28	10.19025	10.07559	8	9.92441	10
51	.73435	20	.26565	.81003	27	.18997	.07567	8	.92433	9
52	.73455	19	.26545	.81030	28	.18970	.07575	9	.92425	8
53	.73474	20	.26526	.81058	28	.18942	.07584	8	.92416	7
54	.73494	19	.26506	.81086	27	.18914	.07592	8	.92408	6
55	9.73513	20	10.26487	9.81113	28	10.18887	10.07600	8	9.92400	5
56	.73533	19	.26467	.81141	28	.18859	.07608	8	.92392	4
57	.73552	20	.26448	.81169	27	.18831	.07616	8	.92384	3
58	.73572	19	.26428	.81196	28	.18804	.07624	9	.92376	2
59	.73591	20	.26409	.81224	28	.18776	.07633	8	.92367	1
60	9.73611		10.26389	9.81252		10.18748	10.07641		9.92359	0
122° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 57°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

33° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 146° ′
0	9.73611	19	10.26389	9.81252	27	10.18748	10.07641	8	9.92359	60
1	.73630	20	.26370	.81279	28	.18721	.07649	8	.92351	59
2	.73650	19	.26350	.81307	28	.18693	.07657	8	.92343	58
3	.73669	20	.26331	.81335	27	.18665	.07665	9	.92335	57
4	.73689	19	.26311	.81362	28	.18638	.07674	8	.92326	56
5	9.73708	19	10.26292	9.81390	28	10.18610	10.07682	8	9.92318	55
6	.73727	20	.26273	.81418	27	.18582	.07690	8	.92310	54
7	.73747	19	.26253	.81445	28	.18555	.07698	9	.92302	53
8	.73766	19	.26234	.81473	27	.18527	.07707	8	.92293	52
9	.73785	20	.26215	.81500	28	.18500	.07715	8	.92285	51
10	9.73805	19	10.26195	9.81528	28	10.18472	10.07723	8	9.92277	50
11	.73824	19	.26176	.81556	27	.18444	.07731	9	.92269	49
12	.73843	20	.26157	.81583	28	.18417	.07740	8	.92260	48
13	.73863	19	.26137	.81611	27	.18389	.07748	8	.92252	47
14	.73882	19	.26118	.81638	28	.18362	.07756	9	.92244	46
15	9.73901	20	10.26099	9.81666	27	10.18334	10.07765	8	9.92235	45
16	.73921	19	.26079	.81693	28	.18307	.07773	8	.92227	44
17	.73940	19	.26060	.81721	27	.18279	.07781	8	.92219	43
18	.73959	19	.26041	.81748	28	.18252	.07789	9	.92211	42
19	.73978	19	.26022	.81776	27	.18224	.07798	8	.92202	41
20	9.73997	20	10.26003	9.81803	28	10.18197	10.07806	8	9.92194	40
21	.74017	19	.25983	.81831	27	.18169	.07814	9	.92186	39
22	.74036	19	.25964	.81858	28	.18142	.07823	8	.92177	38
23	.74055	19	.25945	.81886	27	.18114	.07831	8	.92169	37
24	.74074	19	.25926	.81913	28	.18087	.07839	9	.92161	36
25	9.74093	20	10.25907	9.81941	27	10.18059	10.07848	8	9.92152	35
26	.74113	19	.25887	.81968	28	.18032	.07856	8	.92144	34
27	.74132	19	.25868	.81996	27	.18004	.07864	9	.92136	33
28	.74151	19	.25849	.82023	28	.17977	.07873	8	.92127	32
29	.74170	19	.25830	.82051	27	.17949	.07881	8	.92119	31
30	9.74189	19	10.25811	9.82078	28	10.17922	10.07889	9	9.92111	30
31	.74208	19	.25792	.82106	27	.17894	.07898	8	.92102	29
32	.74227	19	.25773	.82133	28	.17867	.07906	8	.92094	28
33	.74246	19	.25754	.82161	27	.17839	.07914	9	.92086	27
34	.74265	19	.25735	.82188	27	.17812	.07923	8	.92077	26
35	9.74284	19	10.25716	9.82215	28	10.17785	10.07931	9	9.92069	25
36	.74303	19	.25697	.82243	27	.17757	.07940	8	.92060	24
37	.74322	19	.25678	.82270	28	.17730	.07948	8	.92052	23
38	.74341	19	.25659	.82298	27	.17702	.07956	9	.92044	22
39	.74360	19	.25640	.82325	27	.17675	.07965	8	.92035	21
40	9.74379	19	10.25621	9.82352	28	10.17648	10.07973	9	9.92027	20
41	.74398	19	.25602	.82380	27	.17620	.07982	8	.92018	19
42	.74417	19	.25583	.82407	28	.17593	.07990	8	.92010	18
43	.74436	19	.25564	.82435	27	.17565	.07998	9	.92002	17
44	.74455	19	.25545	.82462	27	.17538	.08007	8	.91993	16
45	9.74474	19	10.25526	9.82489	28	10.17511	10.08015	9	9.91985	15
46	.74493	19	.25507	.82517	27	.17483	.08024	8	.91976	14
47	.74512	19	.25488	.82544	27	.17456	.08032	9	.91968	13
48	.74531	18	.25469	.82571	28	.17429	.08041	8	.91959	12
49	.74549	19	.25451	.82599	27	.17401	.08049	9	.91951	11
50	9.74568	19	10.25432	9.82626	27	10.17374	10.08058	8	9.91942	10
51	.74587	19	.25413	.82653	28	.17347	.08066	9	.91934	9
52	.74606	19	.25394	.82681	27	.17319	.08075	8	.91925	8
53	.74625	19	.25375	.82708	27	.17292	.08083	9	.91917	7
54	.74644	18	.25356	.82735	27	.17265	.08092	8	.91908	6
55	9.74662	19	10.25338	9.82762	28	10.17238	10.08100	9	9.91900	5
56	.74681	19	.25319	.82790	27	.17210	.08109	8	.91891	4
57	.74700	19	.25300	.82817	27	.17183	.08117	9	.91883	3
58	.74719	18	.25281	.82844	27	.17156	.08126	8	.91874	2
59	.74737	19	.25263	.82871	28	.17129	.08134	9	.91866	1
60	9.74756		10.25244	9.82899		10.17101	10.08143		9.91857	0
123° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 56°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

34° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 145° ′
0	9.74756	19	10.25244	9.82899	27	10.17101	10.08143	8	9.91857	60
1	.74775	19	.25225	.82926	27	.17074	.08151	9	.91849	59
2	.74794	18	.25206	.82953	27	.17047	.08160	8	.91840	58
3	.74812	19	.25188	.82980	28	.17020	.08168	9	.91832	57
4	.74831	19	.25169	.83008	27	.16992	.08177	8	.91823	56
5	9.74850	18	10.25150	9.83035	27	10.16965	10.08185	9	9.91815	55
6	.74868	19	.25132	.83062	27	.16938	.08194	8	.91806	54
7	.74887	19	.25113	.83089	28	.16911	.08202	9	.91798	53
8	.74906	18	.25094	.83117	27	.16883	.08211	8	.91789	52
9	.74924	19	.25076	.83144	27	.16856	.08219	9	.91781	51
10	9.74943	18	10.25057	9.83171	27	10.16829	10.08228	9	9.91772	50
11	.74961	19	.25039	.83198	27	.16802	.08237	8	.91763	49
12	.74980	19	.25020	.83225	27	.16775	.08245	9	.91755	48
13	.74999	18	.25001	.83252	28	.16748	.08254	8	.91746	47
14	.75017	19	.24983	.83280	27	.16720	.08262	9	.91738	46
15	9.75036	18	10.24964	9.83307	27	10.16693	10.08271	9	9.91729	45
16	.75054	19	.24946	.83334	27	.16666	.08280	8	.91720	44
17	.75073	18	.24927	.83361	27	.16639	.08288	9	.91712	43
18	.75091	19	.24909	.83388	27	.16612	.08297	8	.91703	42
19	.75110	18	.24890	.83415	27	.16585	.08305	9	.91695	41
20	9.75128	19	10.24872	9.83442	28	10.16558	10.08314	9	9.91686	40
21	.75147	18	.24853	.83470	27	.16530	.08323	8	.91677	39
22	.75165	19	.24835	.83497	27	.16503	.08331	9	.91669	38
23	.75184	18	.24816	.83524	27	.16476	.08340	9	.91660	37
24	.75202	19	.24798	.83551	27	.16449	.08349	8	.91651	36
25	9.75221	18	10.24779	9.83578	27	10.16422	10.08357	9	9.91643	35
26	.75239	19	.24761	.83605	27	.16395	.08366	9	.91634	34
27	.75258	18	.24742	.83632	27	.16368	.08375	8	.91625	33
28	.75276	18	.24724	.83659	27	.16341	.08383	9	.91617	32
29	.75294	19	.24706	.83686	27	.16314	.08392	9	.91608	31
30	9.75313	18	10.24687	9.83713	27	10.16287	10.08401	8	9.91599	30
31	.75331	19	.24669	.83740	28	.16260	.08409	9	.91591	29
32	.75350	18	.24650	.83768	27	.16232	.08418	9	.91582	28
33	.75368	18	.24632	.83795	27	.16205	.08427	8	.91573	27
34	.75386	19	.24614	.83822	27	.16178	.08435	9	.91565	26
35	9.75405	18	10.24595	9.83849	27	10.16151	10.08444	9	9.91556	25
36	.75423	18	.24577	.83876	27	.16124	.08453	9	.91547	24
37	.75441	18	.24559	.83903	27	.16097	.08462	8	.91538	23
38	.75459	19	.24541	.83930	27	.16070	.08470	9	.91530	22
39	.75478	18	.24522	.83957	27	.16043	.08479	9	.91521	21
40	9.75496	18	10.24504	9.83984	27	10.16016	10.08488	8	9.91512	20
41	.75514	19	.24486	.84011	27	.15989	.08496	9	.91504	19
42	.75533	18	.24467	.84038	27	.15962	.08505	9	.91495	18
43	.75551	18	.24449	.84065	27	.15935	.08514	9	.91486	17
44	.75569	18	.24431	.84092	27	.15908	.08523	8	.91477	16
45	9.75587	18	10.24413	9.84119	27	10.15881	10.08531	9	9.91469	15
46	.75605	19	.24395	.84146	27	.15854	.08540	9	.91460	14
47	.75624	18	.24376	.84173	27	.15827	.08549	9	.91451	13
48	.75642	18	.24358	.84200	27	.15800	.08558	9	.91442	12
49	.75660	18	.24340	.84227	27	.15773	.08567	8	.91433	11
50	9.75678	18	10.24322	9.84254	26	10.15746	10.08575	9	9.91425	10
51	.75696	18	.24304	.84280	27	.15720	.08584	9	.91416	9
52	.75714	19	.24286	.84307	27	.15693	.08593	9	.91407	8
53	.75733	18	.24267	.84334	27	.15666	.08602	9	.91398	7
54	.75751	18	.24249	.84361	27	.15639	.08611	8	.91389	6
55	9.75769	18	10.24231	9.84388	27	10.15612	10.08619	9	9.91381	5
56	.75787	18	.24213	.84415	27	.15585	.08628	9	.91372	4
57	.75805	18	.24195	.84442	27	.15558	.08637	9	.91363	3
58	.75823	18	.24177	.84469	27	.15531	.08646	9	.91354	2
59	.75841	18	.24159	.84496	27	.15504	.08655	9	.91345	1
60	9.75859	18	10.24141	9.84523	27	10.15477	10.08664	9	9.91336	0
124° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 55°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

35° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 144° ′
0	9.75859	18	10.24141	9.84523	27	10.15477	10.08664	8	9.91336	60
1	.75877	18	.24123	.84550	26	.15450	.08672	9	.91328	59
2	.75895	18	.24105	.84576	27	.15424	.08681	9	.91319	58
3	.75913	18	.24087	.84603	27	.15397	.08690	9	.91310	57
4	.75931	18	.24069	.84630	27	.15370	.08699	9	.91301	56
5	9.75949	18	10.24051	9.84657	27	10.15343	10.08708	9	9.91292	55
6	.75967	18	.24033	.84684	27	.15316	.08717	9	.91283	54
7	.75985	18	.24015	.84711	27	.15289	.08726	8	.91274	53
8	.76003	18	.23997	.84738	26	.15262	.08734	9	.91266	52
9	.76021	18	.23979	.84764	27	.15236	.08743	9	.91257	51
10	9.76039	18	10.23961	9.84791	27	10.15209	10.08752	9	9.91248	50
11	.76057	18	.23943	.84818	27	.15182	.08761	9	.91239	49
12	.76075	18	.23925	.84845	27	.15155	.08770	9	.91230	48
13	.76093	18	.23907	.84872	27	.15128	.08779	9	.91221	47
14	.76111	18	.23889	.84899	26	.15101	.08788	9	.91212	46
15	9.76129	17	10.23871	9.84925	27	10.15075	10.08797	9	9.91203	45
16	.76146	18	.23854	.84952	27	.15048	.08806	9	.91194	44
17	.76164	18	.23836	.84979	27	.15021	.08815	9	.91185	43
18	.76182	18	.23818	.85006	27	.14994	.08824	9	.91176	42
19	.76200	18	.23800	.85033	26	.14967	.08833	9	.91167	41
20	9.76218	18	10.23782	9.85059	27	10.14941	10.08842	9	9.91158	40
21	.76236	17	.23764	.85086	27	.14914	.08851	8	.91149	39
22	.76253	18	.23747	.85113	27	.14887	.08859	9	.91141	38
23	.76271	18	.23729	.85140	26	.14860	.08868	9	.91132	37
24	.76289	18	.23711	.85166	27	.14834	.08877	9	.91123	36
25	9.76307	17	10.23693	9.85193	27	10.14807	10.08886	9	9.91114	35
26	.76324	18	.23676	.85220	27	.14780	.08895	9	.91105	34
27	.76342	18	.23658	.85247	26	.14753	.08904	9	.91096	33
28	.76360	18	.23640	.85273	27	.14727	.08913	9	.91087	32
29	.76378	17	.23622	.85300	27	.14700	.08922	9	.91078	31
30	9.76395	18	10.23605	9.85327	27	10.14673	10.08931	9	9.91069	30
31	.76413	18	.23587	.85354	26	.14646	.08940	9	.91060	29
32	.76431	17	.23569	.85380	27	.14620	.08949	9	.91051	28
33	.76448	18	.23552	.85407	27	.14593	.08958	9	.91042	27
34	.76466	18	.23534	.85434	26	.14566	.08967	10	.91033	26
35	9.76484	17	10.23516	9.85460	27	10.14540	10.08977	9	9.91023	25
36	.76501	18	.23499	.85487	27	.14513	.08986	9	.91014	24
37	.76519	18	.23481	.85514	26	.14486	.08995	9	.91005	23
38	.76537	17	.23463	.85540	27	.14460	.09004	9	.90996	22
39	.76554	18	.23446	.85567	27	.14433	.09013	9	.90987	21
40	9.76572	18	10.23428	9.85594	26	10.14406	10.09022	9	9.90978	20
41	.76590	17	.23410	.85620	27	.14380	.09031	9	.90969	19
42	.76607	18	.23393	.85647	27	.14353	.09040	9	.90960	18
43	.76625	17	.23375	.85674	26	.14326	.09049	9	.90951	17
44	.76642	18	.23358	.85700	27	.14300	.09058	9	.90942	16
45	9.76660	17	10.23340	9.85727	27	10.14273	10.09067	9	9.90933	15
46	.76677	18	.23323	.85754	26	.14246	.09076	9	.90924	14
47	.76695	17	.23305	.85780	27	.14220	.09085	9	.90915	13
48	.76712	18	.23288	.85807	27	.14193	.09094	10	.90906	12
49	.76730	17	.23270	.85834	26	.14166	.09104	9	.90896	11
50	9.76747	18	10.23253	9.85860	27	10.14140	10.09113	9	9.90887	10
51	.76765	17	.23235	.85887	26	.14113	.09122	9	.90878	9
52	.76782	18	.23218	.85913	27	.14087	.09131	9	.90869	8
53	.76800	17	.23200	.85940	27	.14060	.09140	9	.90860	7
54	.76817	18	.23183	.85967	26	.14033	.09149	9	.90851	6
55	9.76835	17	10.23165	9.85993	27	10.14007	10.09158	10	9.90842	5
56	.76852	18	.23148	.86020	26	.13980	.09168	9	.90832	4
57	.76870	17	.23130	.86046	27	.13954	.09177	9	.90823	3
58	.76887	17	.23113	.86073	27	.13927	.09186	9	.90814	2
59	.76904	18	.23096	.86100	26	.13900	.09195	9	.90805	1
60	9.76922	18	10.23078	9.86126	26	10.13874	10.09204	9	9.90796	0
125° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 54°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

36° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 143° ′
0	9.76922	17	10.23078	9.86126	27	10.13874	10.09204	9	9.90796	60
1	.76939	18	.23061	.86153	26	.13847	.09213	10	.90787	59
2	.76957	17	.23043	.86179	27	.13821	.09223	9	.90777	58
3	.76974	17	.23026	.86206	26	.13794	.09232	9	.90768	57
4	.76991	18	.23009	.86232	27	.13768	.09241	9	.90759	56
5	9.77009	17	10.22991	9.86259	26	10.13741	10.09250	9	9.90750	55
6	.77026	17	.22974	.86285	27	.13715	.09259	10	.90741	54
7	.77043	18	.22957	.86312	26	.13688	.09269	9	.90731	53
8	.77061	17	.22939	.86338	27	.13662	.09278	9	.90722	52
9	.77078	17	.22922	.86365	27	.13635	.09287	9	.90713	51
10	9.77095	17	10.22905	9.86392	26	10.13608	10.09296	10	9.90704	50
11	.77112	18	.22888	.86418	27	.13582	.09306	9	.90694	49
12	.77130	17	.22870	.86445	26	.13555	.09315	9	.90685	48
13	.77147	17	.22853	.86471	27	.13529	.09324	9	.90676	47
14	.77164	17	.22836	.86498	26	.13502	.09333	10	.90667	46
15	9.77181	18	10.22819	9.86524	27	10.13476	10.09343	9	9.90657	45
16	.77199	17	.22801	.86551	26	.13449	.09352	9	.90648	44
17	.77216	17	.22784	.86577	26	.13423	.09361	9	.90639	43
18	.77233	17	.22767	.86603	27	.13397	.09370	10	.90630	42
19	.77250	18	.22750	.86630	26	.13370	.09380	9	.90620	41
20	9.77268	17	10.22732	9.86656	27	10.13344	10.09389	9	9.90611	40
21	.77285	17	.22715	.86683	26	.13317	.09398	10	.90602	39
22	.77302	17	.22698	.86709	27	.13291	.09408	9	.90592	38
23	.77319	17	.22681	.86736	26	.13264	.09417	9	.90583	37
24	.77336	17	.22664	.86762	27	.13238	.09426	9	.90574	36
25	9.77353	17	10.22647	9.86789	26	10.13211	10.09435	10	9.90565	35
26	.77370	17	.22630	.86815	27	.13185	.09445	9	.90555	34
27	.77387	18	.22613	.86842	26	.13158	.09454	9	.90546	33
28	.77405	17	.22595	.86868	26	.13132	.09463	10	.90537	32
29	.77422	17	.22578	.86894	27	.13106	.09473	9	.90527	31
30	9.77439	17	10.22561	9.86921	26	10.13079	10.09482	9	9.90518	30
31	.77456	17	.22544	.86947	27	.13053	.09491	10	.90509	29
32	.77473	17	.22527	.86974	26	.13026	.09501	9	.90499	28
33	.77490	17	.22510	.87000	27	.13000	.09510	10	.90490	27
34	.77507	17	.22493	.87027	26	.12973	.09520	9	.90480	26
35	9.77524	17	10.22476	9.87053	26	10.12947	10.09529	9	9.90471	25
36	.77541	17	.22459	.87079	27	.12921	.09538	10	.90462	24
37	.77558	17	.22442	.87106	26	.12894	.09548	9	.90452	23
38	.77575	17	.22425	.87132	26	.12868	.09557	9	.90443	22
39	.77592	17	.22408	.87158	27	.12842	.09566	10	.90434	21
40	9.77609	17	10.22391	9.87185	26	10.12815	10.09576	9	9.90424	20
41	.77626	17	.22374	.87211	27	.12789	.09585	10	.90415	19
42	.77643	17	.22357	.87238	26	.12762	.09595	9	.90405	18
43	.77660	17	.22340	.87264	26	.12736	.09604	10	.90396	17
44	.77677	17	.22323	.87290	27	.12710	.09614	9	.90386	16
45	9.77694	17	10.22306	9.87317	26	10.12683	10.09623	9	9.90377	15
46	.77711	17	.22289	.87343	26	.12657	.09632	10	.90368	14
47	.77728	16	.22272	.87369	27	.12631	.09642	9	.90358	13
48	.77744	17	.22256	.87396	26	.12604	.09651	10	.90349	12
49	.77761	17	.22239	.87422	26	.12578	.09661	9	.90339	11
50	9.77778	17	10.22222	9.87448	27	10.12552	10.09670	10	9.90330	10
51	.77795	17	.22205	.87475	26	.12525	.09680	9	.90320	9
52	.77812	17	.22188	.87501	26	.12499	.09689	10	.90311	8
53	.77829	17	.22171	.87527	27	.12473	.09699	9	.90301	7
54	.77846	16	.22154	.87554	26	.12446	.09708	10	.90292	6
55	9.77862	17	10.22138	9.87580	26	10.12420	10.09718	9	9.90282	5
56	.77879	17	.22121	.87606	27	.12394	.09727	10	.90273	4
57	.77896	17	.22104	.87633	26	.12367	.09737	9	.90263	3
58	.77913	17	.22087	.87659	26	.12341	.09746	10	.90254	2
59	.77930	17	.22070	.87685	26	.12315	.09756	9	.90244	1
60	9.77946	16	10.22054	9.87711	26	10.12289	10.09765	9	9.90235	0
126° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 53°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

37° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 142° ′
0	9.77946	17	10.22054	9.87711	27	10.12289	10.09765	10	9.90235	60
1	.77963	17	.22037	.87738	26	.12262	.09775	9	.90225	59
2	.77980	17	.22020	.87764	26	.12236	.09784	10	.90216	58
3	.77997	16	.22003	.87790	27	.12210	.09794	9	.90206	57
4	.78013	17	.21987	.87817	26	.12183	.09803	10	.90197	56
5	9.78030	17	10.21970	9.87843	26	10.12157	10.09813	9	9.90187	55
6	.78047	16	.21953	.87869	26	.12131	.09822	10	.90178	54
7	.78063	17	.21937	.87895	27	.12105	.09832	9	.90168	53
8	.78080	17	.21920	.87922	26	.12078	.09841	10	.90159	52
9	.78097	16	.21903	.87948	26	.12052	.09851	10	.90149	51
10	9.78113	17	10.21887	9.87974	26	10.12026	10.09861	9	9.90139	50
11	.78130	17	.21870	.88000	27	.12000	.09870	10	.90130	49
12	.78147	16	.21853	.88027	26	.11973	.09880	9	.90120	48
13	.78163	17	.21837	.88053	26	.11947	.09889	10	.90111	47
14	.78180	17	.21820	.88079	26	.11921	.09899	10	.90101	46
15	9.78197	16	10.21803	9.88105	26	10.11895	10.09909	9	9.90091	45
16	.78213	17	.21787	.88131	27	.11869	.09918	10	.90082	44
17	.78230	16	.21770	.88158	26	.11842	.09928	9	.90072	43
18	.78246	17	.21754	.88184	26	.11816	.09937	10	.90063	42
19	.78263	17	.21737	.88210	26	.11790	.09947	10	.90053	41
20	9.78280	16	10.21720	9.88236	26	10.11764	10.09957	9	9.90043	40
21	.78296	17	.21704	.88262	27	.11738	.09966	10	.90034	39
22	.78313	16	.21687	.88289	26	.11711	.09976	10	.90024	38
23	.78329	17	.21671	.88315	26	.11685	.09986	9	.90014	37
24	.78346	16	.21654	.88341	26	.11659	.09995	10	.90005	36
25	9.78362	17	10.21638	9.88367	26	10.11633	10.10005	10	9.89995	35
26	.78379	16	.21621	.88393	27	.11607	.10015	9	.89985	34
27	.78395	17	.21605	.88420	26	.11580	.10024	10	.89976	33
28	.78412	16	.21588	.88446	26	.11554	.10034	10	.89966	32
29	.78428	17	.21572	.88472	26	.11528	.10044	9	.89956	31
30	9.78445	16	10.21555	9.88498	26	10.11502	10.10053	10	9.89947	30
31	.78461	17	.21539	.88524	26	.11476	.10063	10	.89937	29
32	.78478	16	.21522	.88550	27	.11450	.10073	9	.89927	28
33	.78494	16	.21506	.88577	26	.11423	.10082	10	.89918	27
34	.78510	17	.21490	.88603	26	.11397	.10092	10	.89908	26
35	9.78527	16	10.21473	9.88629	26	10.11371	10.10102	10	9.89898	25
36	.78543	17	.21457	.88655	26	.11345	.10112	9	.89888	24
37	.78560	16	.21440	.88681	26	.11319	.10121	10	.89879	23
38	.78576	16	.21424	.88707	26	.11293	.10131	10	.89869	22
39	.78592	17	.21408	.88733	26	.11267	.10141	10	.89859	21
40	9.78609	16	10.21391	9.88759	27	10.11241	10.10151	9	9.89849	20
41	.78625	17	.21375	.88786	26	.11214	.10160	10	.89840	19
42	.78642	16	.21358	.88812	26	.11188	.10170	10	.89830	18
43	.78658	16	.21342	.88838	26	.11162	.10180	10	.89820	17
44	.78674	17	.21326	.88864	26	.11136	.10190	9	.89810	16
45	9.78691	16	10.21309	9.88890	26	10.11110	10.10199	10	9.89801	15
46	.78707	16	.21293	.88916	26	.11084	.10209	10	.89791	14
47	.78723	16	.21277	.88942	26	.11058	.10219	10	.89781	13
48	.78739	17	.21261	.88968	26	.11032	.10229	10	.89771	12
49	.78756	16	.21244	.88994	26	.11006	.10239	9	.89761	11
50	9.78772	16	10.21228	9.89020	26	10.10980	10.10248	10	9.89752	10
51	.78788	17	.21212	.89046	27	.10954	.10258	10	.89742	9
52	.78805	16	.21195	.89073	26	.10927	.10268	10	.89732	8
53	.78821	16	.21179	.89099	26	.10901	.10278	10	.89722	7
54	.78837	16	.21163	.89125	26	.10875	.10288	10	.89712	6
55	9.78853	16	10.21147	9.89151	26	10.10849	10.10298	9	9.89702	5
56	.78869	17	.21131	.89177	26	.10823	.10307	10	.89693	4
57	.78886	16	.21114	.89203	26	.10797	.10317	10	.89683	3
58	.78902	16	.21098	.89229	26	.10771	.10327	10	.89673	2
59	.78918	16	.21082	.89255	26	.10745	.10337	10	.89663	1
60	9.78934	16	10.21066	9.89281	26	10.10719	10.10347	10	9.89653	0
127° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 52°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

38° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 141° ′
0	9.78934	16	10.21066	9.89281	26	10.10719	10.10347	10	9.89653	60
1	.78950	17	.21050	.89307	26	.10693	.10357	10	.89643	59
2	.78967	16	.21033	.89333	26	.10667	.10367	9	.89633	58
3	.78983	16	.21017	.89359	26	.10641	.10376	10	.89624	57
4	.78999	16	.21001	.89385	26	.10615	.10386	10	.89614	56
5	9.79015	16	10.20985	9.89411	26	10.10589	10.10396	10	9.89604	55
6	.79031	16	.20969	.89437	26	.10563	.10406	10	.89594	54
7	.79047	16	.20953	.89463	26	.10537	.10416	10	.89584	53
8	.79063	16	.20937	.89489	26	.10511	.10426	10	.89574	52
9	.79079	16	.20921	.89515	26	.10485	.10436	10	.89564	51
10	9.79095	16	10.20905	9.89541	26	10.10459	10.10446	10	9.89554	50
11	.79111	17	.20889	.89567	26	.10433	.10456	10	.89544	49
12	.79128	16	.20872	.89593	26	.10407	.10466	10	.89534	48
13	.79144	16	.20856	.89619	26	.10381	.10476	10	.89524	47
14	.79160	16	.20840	.89645	26	.10355	.10486	10	.89514	46
15	9.79176	16	10.20824	9.89671	26	10.10329	10.10496	9	9.89504	45
16	.79192	16	.20808	.89697	26	.10303	.10505	10	.89495	44
17	.79208	16	.20792	.89723	26	.10277	.10515	10	.89485	43
18	.79224	16	.20776	.89749	26	.10251	.10525	10	.89475	42
19	.79240	16	.20760	.89775	26	.10225	.10535	10	.89465	41
20	9.79256	16	10.20744	9.89801	26	10.10199	10.10545	10	9.89455	40
21	.79272	16	.20728	.89827	26	.10173	.10555	10	.89445	39
22	.79288	16	.20712	.89853	26	.10147	.10565	10	.89435	38
23	.79304	15	.20696	.89879	26	.10121	.10575	10	.89425	37
24	.79319	16	.20681	.89905	26	.10095	.10585	10	.89415	36
25	9.79335	16	10.20665	9.89931	26	10.10069	10.10595	10	9.89405	35
26	.79351	16	.20649	.89957	26	.10043	.10605	10	.89395	34
27	.79367	16	.20633	.89983	26	.10017	.10615	10	.89385	33
28	.79383	16	.20617	.90009	26	.09991	.10625	11	.89375	32
29	.79399	16	.20601	.90035	26	.09965	.10636	10	.89364	31
30	9.79415	16	10.20585	9.90061	25	10.09939	10.10646	10	9.89354	30
31	.79431	16	.20569	.90086	26	.09914	.10656	10	.89344	29
32	.79447	16	.20553	.90112	26	.09888	.10666	10	.89334	28
33	.79463	15	.20537	.90138	26	.09862	.10676	10	.89324	27
34	.79478	16	.20522	.90164	26	.09836	.10686	10	.89314	26
35	9.79494	16	10.20506	9.90190	26	10.09810	10.10696	10	9.89304	25
36	.79510	16	.20490	.90216	26	.09784	.10706	10	.89294	24
37	.79526	16	.20474	.90242	26	.09758	.10716	10	.89284	23
38	.79542	16	.20458	.90268	26	.09732	.10726	10	.89274	22
39	.79558	15	.20442	.90294	26	.09706	.10736	10	.89264	21
40	9.79573	16	10.20427	9.90320	26	10.09680	10.10746	10	9.89254	20
41	.79589	16	.20411	.90346	25	.09654	.10756	11	.89244	19
42	.79605	16	.20395	.90371	26	.09629	.10767	10	.89233	18
43	.79621	15	.20379	.90397	26	.09603	.10777	10	.89223	17
44	.79636	16	.20364	.90423	26	.09577	.10787	10	.89213	16
45	9.79652	16	10.20348	9.90449	26	10.09551	10.10797	10	9.89203	15
46	.79668	16	.20332	.90475	26	.09525	.10807	10	.89193	14
47	.79684	15	.20316	.90501	26	.09499	.10817	10	.89183	13
48	.79699	16	.20301	.90527	26	.09473	.10827	11	.89173	12
49	.79715	16	.20285	.90553	25	.09447	.10838	10	.89162	11
50	9.79731	15	10.20269	9.90578	26	10.09422	10.10848	10	9.89152	10
51	.79746	16	.20254	.90604	26	.09396	.10858	10	.89142	9
52	.79762	16	.20238	.90630	26	.09370	.10868	10	.89132	8
53	.79778	15	.20222	.90656	26	.09344	.10878	10	.89122	7
54	.79793	16	.20207	.90682	26	.09318	.10888	11	.89112	6
55	9.79809	16	10.20191	9.90708	26	10.09292	10.10899	10	9.89101	5
56	.79825	15	.20175	.90734	25	.09266	.10909	10	.89091	4
57	.79840	16	.20160	.90759	26	.09241	.10919	10	.89081	3
58	.79856	16	.20144	.90785	26	.09215	.10929	11	.89071	2
59	.79872	15	.20128	.90811	26	.09189	.10940	10	.89060	1
60	9.79887		10.20113	9.90837		10.09163	10.10950		9.89050	0
↑ 128° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← ↑ 51°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

39° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 140° ′
0	9.79887	16	10.20113	9.90837	26	10.09163	10.10950	10	9.89050	60
1	.79903	15	.20097	.90863	26	.09137	.10960	10	.89040	59
2	.79918	16	.20082	.90889	25	.09111	.10970	10	.89030	58
3	.79934	16	.20066	.90914	26	.09086	.10980	11	.89020	57
4	.79950	15	.20050	.90940	26	.09060	.10991	10	.89009	56
5	9.79965	16	10.20035	9.90966	26	10.09034	10.11001	10	9.88999	55
6	.79981	15	.20019	.90992	26	.09008	.11011	11	.88989	54
7	.79996	16	.20004	.91018	25	.08982	.11022	10	.88978	53
8	.80012	15	.19988	.91043	26	.08957	.11032	10	.88968	52
9	.80027	16	.19973	.91069	26	.08931	.11042	10	.88958	51
10	9.80043	15	10.19957	9.91095	26	10.08905	10.11052	11	9.88948	50
11	.80058	16	.19942	.91121	26	.08879	.11063	10	.88937	49
12	.80074	15	.19926	.91147	25	.08853	.11073	10	.88927	48
13	.80089	16	.19911	.91172	26	.08828	.11083	11	.88917	47
14	.80105	15	.19895	.91198	26	.08802	.11094	10	.88906	46
15	9.80120	16	10.19880	9.91224	26	10.08776	10.11104	10	9.88896	45
16	.80136	15	.19864	.91250	26	.08750	.11114	11	.88886	44
17	.80151	15	.19849	.91276	25	.08724	.11125	10	.88875	43
18	.80166	16	.19834	.91301	26	.08699	.11135	10	.88865	42
19	.80182	15	.19818	.91327	26	.08673	.11145	11	.88855	41
20	9.80197	16	10.19803	9.91353	26	10.08647	10.11156	10	9.88844	40
21	.80213	15	.19787	.91379	25	.08621	.11166	10	.88834	39
22	.80228	16	.19772	.91404	26	.08596	.11176	11	.88824	38
23	.80244	15	.19756	.91430	26	.08570	.11187	10	.88813	37
24	.80259	15	.19741	.91456	26	.08544	.11197	10	.88803	36
25	9.80274	16	10.19726	9.91482	25	10.08518	10.11207	11	9.88793	35
26	.80290	15	.19710	.91507	26	.08493	.11218	10	.88782	34
27	.80305	15	.19695	.91533	26	.08467	.11228	11	.88772	33
28	.80320	16	.19680	.91559	26	.08441	.11239	10	.88761	32
29	.80336	15	.19664	.91585	25	.08415	.11249	10	.88751	31
30	9.80351	15	10.19649	9.91610	26	10.08390	10.11259	11	9.88741	30
31	.80366	16	.19634	.91636	26	.08364	.11270	10	.88730	29
32	.80382	15	.19618	.91662	26	.08338	.11280	11	.88720	28
33	.80397	15	.19603	.91688	25	.08312	.11291	10	.88709	27
34	.80412	16	.19588	.91713	26	.08287	.11301	11	.88699	26
35	9.80428	15	10.19572	9.91739	26	10.08261	10.11312	10	9.88688	25
36	.80443	15	.19557	.91765	26	.08235	.11322	10	.88678	24
37	.80458	15	.19542	.91791	25	.08209	.11332	11	.88668	23
38	.80473	16	.19527	.91816	26	.08184	.11343	10	.88657	22
39	.80489	15	.19511	.91842	26	.08158	.11353	11	.88647	21
40	9.80504	15	10.19496	9.91868	25	10.08132	10.11364	10	9.88636	20
41	.80519	15	.19481	.91893	26	.08107	.11374	11	.88626	19
42	.80534	16	.19466	.91919	26	.08081	.11385	10	.88615	18
43	.80550	15	.19450	.91945	26	.08055	.11395	11	.88605	17
44	.80565	15	.19435	.91971	25	.08029	.11406	10	.88594	16
45	9.80580	15	10.19420	9.91996	26	10.08004	10.11416	11	9.88584	15
46	.80595	15	.19405	.92022	26	.07978	.11427	10	.88573	14
47	.80610	15	.19390	.92048	25	.07952	.11437	11	.88563	13
48	.80625	16	.19375	.92073	26	.07927	.11448	10	.88552	12
49	.80641	15	.19359	.92099	26	.07901	.11458	11	.88542	11
50	9.80656	15	10.19344	9.92125	25	10.07875	10.11469	10	9.88531	10
51	.80671	15	.19329	.92150	26	.07850	.11479	11	.88521	9
52	.80686	15	.19314	.92176	26	.07824	.11490	11	.88510	8
53	.80701	15	.19299	.92202	25	.07798	.11501	10	.88499	7
54	.80716	15	.19284	.92227	26	.07773	.11511	11	.88489	6
55	9.80731	15	10.19269	9.92253	26	10.07747	10.11522	10	9.88478	5
56	.80746	16	.19254	.92279	25	.07721	.11532	11	.88468	4
57	.80762	15	.19238	.92304	26	.07696	.11543	10	.88457	3
58	.80777	15	.19223	.92330	26	.07670	.11553	11	.88447	2
59	.80792	15	.19208	.92356	25	.07644	.11564	11	.88436	1
60	9.80807		10.19193	9.92381		10.07619	10.11575		9.88425	0
↑ 129° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← ↑ 50°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

40° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 139° ′
0	9.80807	15	10.19193	9.92381	26	10.07619	10.11575	10	9.88425	60
1	.80822	15	.19178	.92407	26	.07593	.11585	11	.88415	59
2	.80837	15	.19163	.92433	25	.07567	.11596	10	.88404	58
3	.80852	15	.19148	.92458	26	.07542	.11606	11	.88394	57
4	.80867	15	.19133	.92484	26	.07516	.11617	11	.88383	56
5	9.80882	15	10.19118	9.92510	25	10.07490	10.11628	10	9.88372	55
6	.80897	15	.19103	.92535	26	.07465	.11638	11	.88362	54
7	.80912	15	.19088	.92561	26	.07439	.11649	11	.88351	53
8	.80927	15	.19073	.92587	25	.07413	.11660	10	.88340	52
9	.80942	15	.19058	.92612	26	.07388	.11670	11	.88330	51
10	9.80957	15	10.19043	9.92638	25	10.07362	10.11681	11	9.88319	50
11	.80972	15	.19028	.92663	26	.07337	.11692	10	.88308	49
12	.80987	15	.19013	.92689	26	.07311	.11702	11	.88298	48
13	.81002	15	.18998	.92715	25	.07285	.11713	11	.88287	47
14	.81017	15	.18983	.92740	26	.07260	.11724	10	.88276	46
15	9.81032	15	10.18968	9.92766	26	10.07234	10.11734	11	9.88266	45
16	.81047	14	.18953	.92792	25	.07208	.11745	11	.88255	44
17	.81061	15	.18939	.92817	26	.07183	.11756	10	.88244	43
18	.81076	15	.18924	.92843	26	.07157	.11766	11	.88234	42
19	.81091	15	.18909	.92868	25	.07132	.11777	11	.88223	41
20	9.81106	15	10.18894	9.92894	26	10.07106	10.11788	11	9.88212	40
21	.81121	15	.18879	.92920	26	.07080	.11799	10	.88201	39
22	.81136	15	.18864	.92945	25	.07055	.11809	11	.88191	38
23	.81151	15	.18849	.92971	26	.07029	.11820	11	.88180	37
24	.81166	14	.18834	.92996	25	.07004	.11831	11	.88169	36
25	9.81180	15	10.18820	9.93022	26	10.06978	10.11842	10	9.88158	35
26	.81195	15	.18805	.93048	26	.06952	.11852	11	.88148	34
27	.81210	15	.18790	.93073	25	.06927	.11863	11	.88137	33
28	.81225	15	.18775	.93099	26	.06901	.11874	11	.88126	32
29	.81240	14	.18760	.93124	25	.06876	.11885	10	.88115	31
30	9.81254	15	10.18746	9.93150	26	10.06850	10.11895	11	9.88105	30
31	.81269	15	.18731	.93175	26	.06825	.11906	11	.88094	29
32	.81284	15	.18716	.93201	25	.06799	.11917	11	.88083	28
33	.81299	15	.18701	.93227	26	.06773	.11928	11	.88072	27
34	.81314	14	.18686	.93252	26	.06748	.11939	10	.88061	26
35	9.81328	15	10.18672	9.93278	25	10.06722	10.11949	11	9.88051	25
36	.81343	15	.18657	.93303	26	.06697	.11960	11	.88040	24
37	.81358	14	.18642	.93329	25	.06671	.11971	11	.88029	23
38	.81372	15	.18628	.93354	26	.06646	.11982	11	.88018	22
39	.81387	15	.18613	.93380	26	.06620	.11993	11	.88007	21
40	9.81402	15	10.18598	9.93406	25	10.06594	10.12004	11	9.87996	20
41	.81417	14	.18583	.93431	26	.06569	.12015	10	.87985	19
42	.81431	15	.18569	.93457	25	.06543	.12025	11	.87975	18
43	.81446	15	.18554	.93482	26	.06518	.12036	11	.87964	17
44	.81461	14	.18539	.93508	25	.06492	.12047	11	.87953	16
45	9.81475	15	10.18525	9.93533	26	10.06467	10.12058	11	9.87942	15
46	.81490	15	.18510	.93559	25	.06441	.12069	11	.87931	14
47	.81505	14	.18495	.93584	26	.06416	.12080	11	.87920	13
48	.81519	15	.18481	.93610	26	.06390	.12091	11	.87909	12
49	.81534	15	.18466	.93636	25	.06364	.12102	11	.87898	11
50	9.81549	14	10.18451	9.93661	26	10.06339	10.12113	10	9.87887	10
51	.81563	15	.18437	.93687	25	.06313	.12123	11	.87877	9
52	.81578	14	.18422	.93712	26	.06288	.12134	11	.87866	8
53	.81592	15	.18408	.93738	25	.06262	.12145	11	.87855	7
54	.81607	15	.18393	.93763	26	.06237	.12156	11	.87844	6
55	9.81622	14	10.18378	9.93789	25	10.06211	10.12167	11	9.87833	5
56	.81636	15	.18364	.93814	26	.06186	.12178	11	.87822	4
57	.81651	14	.18349	.93840	25	.06160	.12189	11	.87811	3
58	.81665	15	.18335	.93865	26	.06135	.12200	11	.87800	2
59	.81680	14	.18320	.93891	25	.06109	.12211	11	.87789	1
60	9.81694		10.18306	9.93916		10.06084	10.12222		9.87778	0
130° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 49°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

41° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 138° ′
0	9.81694	15	10.18306	9.93916	26	10.06084	10.12222	11	9.87778	60
1	.81709	14	.18291	.93942	25	.06058	.12233	11	.87767	59
2	.81723	15	.18277	.93967	26	.06033	.12244	11	.87756	58
3	.81738	14	.18262	.93993	25	.06007	.12255	11	.87745	57
4	.81752	15	.18248	.94018	26	.05982	.12266	11	.87734	56
5	9.81767	14	10.18233	9.94044	25	10.05956	10.12277	11	9.87723	55
6	.81781	15	.18219	.94069	26	.05931	.12288	11	.87712	54
7	.81796	14	.18204	.94095	25	.05905	.12299	11	.87701	53
8	.81810	15	.18190	.94120	26	.05880	.12310	11	.87690	52
9	.81825	14	.18175	.94146	25	.05854	.12321	11	.87679	51
10	9.81839	15	10.18161	9.94171	26	10.05829	10.12332	11	9.87668	50
11	.81854	14	.18146	.94197	25	.05803	.12343	11	.87657	49
12	.81868	14	.18132	.94222	26	.05778	.12354	11	.87646	48
13	.81882	15	.18118	.94248	25	.05752	.12365	11	.87635	47
14	.81897	14	.18103	.94273	26	.05727	.12376	11	.87624	46
15	9.81911	15	10.18089	9.94299	25	10.05701	10.12387	12	9.87613	45
16	.81926	14	.18074	.94324	26	.05676	.12399	11	.87601	44
17	.81940	15	.18060	.94350	25	.05650	.12410	11	.87590	43
18	.81955	14	.18045	.94375	26	.05625	.12421	11	.87579	42
19	.81969	14	.18031	.94401	25	.05599	.12432	11	.87568	41
20	9.81983	15	10.18017	9.94426	26	10.05574	10.12443	11	9.87557	40
21	.81998	14	.18002	.94452	25	.05548	.12454	11	.87546	39
22	.82012	14	.17988	.94477	26	.05523	.12465	11	.87535	38
23	.82026	15	.17974	.94503	25	.05497	.12476	11	.87524	37
24	.82041	14	.17959	.94528	26	.05472	.12487	12	.87513	36
25	9.82055	14	10.17945	9.94554	25	10.05446	10.12499	11	9.87501	35
26	.82069	15	.17931	.94579	25	.05421	.12510	11	.87490	34
27	.82084	14	.17916	.94604	26	.05396	.12521	11	.87479	33
28	.82098	14	.17902	.94630	25	.05370	.12532	11	.87468	32
29	.82112	14	.17888	.94655	26	.05345	.12543	11	.87457	31
30	9.82126	15	10.17874	9.94681	25	10.05319	10.12554	12	9.87446	30
31	.82141	14	.17859	.94706	26	.05294	.12566	11	.87434	29
32	.82155	14	.17845	.94732	25	.05268	.12577	11	.87423	28
33	.82169	15	.17831	.94757	26	.05243	.12588	11	.87412	27
34	.82184	14	.17816	.94783	25	.05217	.12599	11	.87401	26
35	9.82198	14	10.17802	9.94808	26	10.05192	10.12610	12	9.87390	25
36	.82212	14	.17788	.94834	25	.05166	.12622	11	.87378	24
37	.82226	14	.17774	.94859	25	.05141	.12633	11	.87367	23
38	.82240	15	.17760	.94884	26	.05116	.12644	11	.87356	22
39	.82255	14	.17745	.94910	25	.05090	.12655	11	.87345	21
40	9.82269	14	10.17731	9.94935	26	10.05065	10.12666	12	9.87334	20
41	.82283	14	.17717	.94961	25	.05039	.12678	11	.87322	19
42	.82297	14	.17703	.94986	26	.05014	.12689	11	.87311	18
43	.82311	15	.17689	.95012	25	.04988	.12700	12	.87300	17
44	.82326	14	.17674	.95037	25	.04963	.12712	11	.87288	16
45	9.82340	14	10.17660	9.95062	26	10.04938	10.12723	11	9.87277	15
46	.82354	14	.17646	.95088	25	.04912	.12734	11	.87266	14
47	.82368	14	.17632	.95113	26	.04887	.12745	12	.87255	13
48	.82382	14	.17618	.95139	25	.04861	.12757	11	.87243	12
49	.82396	14	.17604	.95164	26	.04836	.12768	11	.87232	11
50	9.82410	14	10.17590	9.95190	25	10.04810	10.12779	12	9.87221	10
51	.82424	15	.17576	.95215	25	.04785	.12791	11	.87209	9
52	.82439	14	.17561	.95240	26	.04760	.12802	11	.87198	8
53	.82453	14	.17547	.95266	25	.04734	.12813	12	.87187	7
54	.82467	14	.17533	.95291	26	.04709	.12825	11	.87175	6
55	9.82481	14	10.17519	9.95317	25	10.04683	10.12836	11	9.87164	5
56	.82495	14	.17505	.95342	26	.04658	.12847	12	.87153	4
57	.82509	14	.17491	.95368	25	.04632	.12859	11	.87141	3
58	.82523	14	.17477	.95393	25	.04607	.12870	11	.87130	2
59	.82537	14	.17463	.95418	26	.04582	.12881	12	.87119	1
60	9.82551		10.17449	9.95444		10.04556	10.12893		9.87107	0
131° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 48°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

42° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 137° ′
0	9.82551	14	10.17449	9.95444	25	10.04556	10.12893	11	9.87107	60
1	.82565	14	.17435	.95469	26	.04531	.12904	11	.87096	59
2	.82579	14	.17421	.95495	25	.04505	.12915	12	.87085	58
3	.82593	14	.17407	.95520	25	.04480	.12927	11	.87073	57
4	.82607	14	.17393	.95545	26	.04455	.12938	12	.87062	56
5	9.82621	14	10.17379	9.95571	25	10.04429	10.12950	11	9.87050	55
6	.82635	14	.17365	.95596	26	.04404	.12961	11	.87039	54
7	.82649	14	.17351	.95622	25	.04378	.12972	12	.87028	53
8	.82663	14	.17337	.95647	25	.04353	.12984	11	.87016	52
9	.82677	14	.17323	.95672	26	.04328	.12995	12	.87005	51
10	9.82691	14	10.17309	9.95698	25	10.04302	10.13007	11	9.86993	50
11	.82705	14	.17295	.95723	25	.04277	.13018	12	.86982	49
12	.82719	14	.17281	.95748	26	.04252	.13030	11	.86970	48
13	.82733	14	.17267	.95774	25	.04226	.13041	12	.86959	47
14	.82747	14	.17253	.95799	26	.04201	.13053	11	.86947	46
15	9.82761	14	10.17239	9.95825	25	10.04175	10.13064	12	9.86936	45
16	.82775	13	.17225	.95850	25	.04150	.13076	11	.86924	44
17	.82788	14	.17212	.95875	26	.04125	.13087	11	.86913	43
18	.82802	14	.17198	.95901	25	.04099	.13098	12	.86902	42
19	.82816	14	.17184	.95926	26	.04074	.13110	11	.86890	41
20	9.82830	14	10.17170	9.95952	25	10.04048	10.13121	12	9.86879	40
21	.82844	14	.17156	.95977	25	.04023	.13133	12	.86867	39
22	.82858	14	.17142	.96002	26	.03998	.13145	11	.86855	38
23	.82872	13	.17128	.96028	25	.03972	.13156	12	.86844	37
24	.82885	14	.17115	.96053	25	.03947	.13168	11	.86832	36
25	9.82899	14	10.17101	9.96078	26	10.03922	10.13179	12	9.86821	35
26	.82913	14	.17087	.96104	25	.03896	.13191	11	.86809	34
27	.82927	14	.17073	.96129	26	.03871	.13202	12	.86798	33
28	.82941	14	.17059	.96155	25	.03845	.13214	11	.86786	32
29	.82955	13	.17045	.96180	25	.03820	.13225	12	.86775	31
30	9.82968	14	10.17032	9.96205	26	10.03795	10.13237	11	9.86763	30
31	.82982	14	.17018	.96231	25	.03769	.13248	12	.86752	29
32	.82996	14	.17004	.96256	25	.03744	.13260	12	.86740	28
33	.83010	13	.16990	.96281	26	.03719	.13272	11	.86728	27
34	.83023	14	.16977	.96307	25	.03693	.13283	12	.86717	26
35	9.83037	14	10.16963	9.96332	25	10.03668	10.13295	11	9.86705	25
36	.83051	14	.16949	.96357	26	.03643	.13306	12	.86694	24
37	.83065	13	.16935	.96383	25	.03617	.13318	12	.86682	23
38	.83078	14	.16922	.96408	25	.03592	.13330	11	.86670	22
39	.83092	14	.16908	.96433	26	.03567	.13341	12	.86659	21
40	9.83106	14	10.16894	9.96459	25	10.03541	10.13353	12	9.86647	20
41	.83120	13	.16880	.96484	26	.03516	.13365	11	.86635	19
42	.83133	14	.16867	.96510	25	.03490	.13376	12	.86624	18
43	.83147	14	.16853	.96535	25	.03465	.13388	12	.86612	17
44	.83161	13	.16839	.96560	26	.03440	.13400	11	.86600	16
45	9.83174	14	10.16826	9.96586	25	10.03414	10.13411	12	9.86589	15
46	.83188	14	.16812	.96611	25	.03389	.13423	12	.86577	14
47	.83202	13	.16798	.96636	26	.03364	.13435	11	.86565	13
48	.83215	14	.16785	.96662	25	.03338	.13446	12	.86554	12
49	.83229	13	.16771	.96687	25	.03313	.13458	12	.86542	11
50	9.83242	14	10.16758	9.96712	26	10.03288	10.13470	12	9.86530	10
51	.83256	14	.16744	.96738	25	.03262	.13482	11	.86518	9
52	.83270	13	.16730	.96763	25	.03237	.13493	12	.86507	8
53	.83283	14	.16717	.96788	26	.03212	.13505	12	.86495	7
54	.83297	13	.16703	.96814	25	.03186	.13517	11	.86483	6
55	9.83310	14	10.16690	9.96839	25	10.03161	10.13528	12	9.86472	5
56	.83324	14	.16676	.96864	26	.03136	.13540	12	.86460	4
57	.83338	13	.16662	.96890	25	.03110	.13552	12	.86448	3
58	.83351	14	.16649	.96915	25	.03085	.13564	11	.86436	2
59	.83365	13	.16635	.96940	26	.03060	.13575	12	.86425	1
60	9.83378		10.16622	9.96966		10.03034	10.13587		9.86413	0
132° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 47°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

43° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 136° ′
0	9.83378	14	10.16622	9.96966	25	10.03034	10.13587	12	9.86413	60
1	.83392	13	.16608	.96991	25	.03009	.13599	12	.86401	59
2	.83405	14	.16595	.97016	26	.02984	.13611	12	.86389	58
3	.83419	13	.16581	.97042	25	.02958	.13623	11	.86377	57
4	.83432	14	.16568	.97067	25	.02933	.13634	12	.86366	56
5	9.83446	13	10.16554	9.97092	26	10.02908	10.13646	12	9.86354	55
6	.83459	14	.16541	.97118	25	.02882	.13658	12	.86342	54
7	.83473	13	.16527	.97143	25	.02857	.13670	12	.86330	53
8	.83486	14	.16514	.97168	25	.02832	.13682	12	.86318	52
9	.83500	13	.16500	.97193	26	.02807	.13694	11	.86306	51
10	9.83513	14	10.16487	9.97219	25	10.02781	10.13705	12	9.86295	50
11	.83527	13	.16473	.97244	25	.02756	.13717	12	.86283	49
12	.83540	14	.16460	.97269	26	.02731	.13729	12	.86271	48
13	.83554	13	.16446	.97295	25	.02705	.13741	12	.86259	47
14	.83567	14	.16433	.97320	25	.02680	.13753	12	.86247	46
15	9.83581	13	10.16419	9.97345	26	10.02655	10.13765	12	9.86235	45
16	.83594	14	.16406	.97371	25	.02629	.13777	12	.86223	44
17	.83608	13	.16392	.97396	25	.02604	.13789	11	.86211	43
18	.83621	13	.16379	.97421	26	.02579	.13800	12	.86200	42
19	.83634	14	.16366	.97447	25	.02553	.13812	12	.86188	41
20	9.83648	13	10.16352	9.97472	25	10.02528	10.13824	12	9.86176	40
21	.83661	13	.16339	.97497	26	.02503	.13836	12	.86164	39
22	.83674	14	.16326	.97523	25	.02477	.13848	12	.86152	38
23	.83688	13	.16312	.97548	25	.02452	.13860	12	.86140	37
24	.83701	13	.16299	.97573	25	.02427	.13872	12	.86128	36
25	9.83715	14	10.16285	9.97598	26	10.02402	10.13884	12	9.86116	35
26	.83728	13	.16272	.97624	25	.02376	.13896	12	.86104	34
27	.83741	13	.16259	.97649	25	.02351	.13908	12	.86092	33
28	.83755	14	.16245	.97674	26	.02326	.13920	12	.86080	32
29	.83768	13	.16232	.97700	25	.02300	.13932	12	.86068	31
30	9.83781	13	10.16219	9.97725	25	10.02275	10.13944	12	9.86056	30
31	.83795	14	.16205	.97750	26	.02250	.13956	12	.86044	29
32	.83808	13	.16192	.97776	25	.02224	.13968	12	.86032	28
33	.83821	13	.16179	.97801	25	.02199	.13980	12	.86020	27
34	.83834	14	.16166	.97826	25	.02174	.13992	12	.86008	26
35	9.83848	13	10.16152	9.97851	26	10.02149	10.14004	12	9.85996	25
36	.83861	13	.16139	.97877	25	.02123	.14016	12	.85984	24
37	.83874	13	.16126	.97902	25	.02098	.14028	12	.85972	23
38	.83887	14	.16113	.97927	26	.02073	.14040	12	.85960	22
39	.83901	13	.16099	.97953	25	.02047	.14052	12	.85948	21
40	9.83914	13	10.16086	9.97978	25	10.02022	10.14064	12	9.85936	20
41	.83927	13	.16073	.98003	26	.01997	.14076	12	.85924	19
42	.83940	14	.16060	.98029	25	.01971	.14088	12	.85912	18
43	.83954	13	.16046	.98054	25	.01946	.14100	12	.85900	17
44	.83967	13	.16033	.98079	25	.01921	.14112	12	.85888	16
45	9.83980	13	10.16020	9.98104	26	10.01896	10.14124	12	9.85876	15
46	.83993	13	.16007	.98130	25	.01870	.14136	13	.85864	14
47	.84006	14	.15994	.98155	25	.01845	.14149	12	.85851	13
48	.84020	13	.15980	.98180	26	.01820	.14161	12	.85839	12
49	.84033	13	.15967	.98206	25	.01794	.14173	12	.85827	11
50	9.84046	13	10.15954	9.98231	25	10.01769	10.14185	12	9.85815	10
51	.84059	13	.15941	.98256	25	.01744	.14197	12	.85803	9
52	.84072	13	.15928	.98281	26	.01719	.14209	12	.85791	8
53	.84085	13	.15915	.98307	25	.01693	.14221	13	.85779	7
54	.84098	14	.15902	.98332	25	.01668	.14234	12	.85766	6
55	9.84112	13	10.15888	9.98357	26	10.01643	10.14246	12	9.85754	5
56	.84125	13	.15875	.98383	25	.01617	.14258	12	.85742	4
57	.84138	13	.15862	.98408	25	.01592	.14270	12	.85730	3
58	.84151	13	.15849	.98433	25	.01567	.14282	12	.85718	2
59	.84164	13	.15836	.98458	25	.01542	.14294	13	.85706	1
60	9.84177		10.15823	9.98484	26	10.01516	10.14307		9.85693	0
133° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 46°

TABLE 3

Common Logarithms of Trigonometric Functions (offset +10)

44° → ′	sin	Diff. 1′	csc	tan	Diff. 1′	cot	sec	Diff. 1′	cos	← 135° ′
0	9.84177	13	10.15823	9.98484	25	10.01516	10.14307	12	9.85693	60
1	.84190	13	.15810	.98509	25	.01491	.14319	12	.85681	59
2	.84203	13	.15797	.98534	26	.01466	.14331	12	.85669	58
3	.84216	13	.15784	.98560	25	.01440	.14343	12	.85657	57
4	.84229	13	.15771	.98585	25	.01415	.14355	13	.85645	56
5	9.84242	13	10.15758	9.98610	25	10.01390	10.14368	12	9.85632	55
6	.84255	14	.15745	.98635	26	.01365	.14380	12	.85620	54
7	.84269	13	.15731	.98661	25	.01339	.14392	12	.85608	53
8	.84282	13	.15718	.98686	25	.01314	.14404	13	.85596	52
9	.84295	13	.15705	.98711	26	.01289	.14417	12	.85583	51
10	9.84308	13	10.15692	9.98737	25	10.01263	10.14429	12	9.85571	50
11	.84321	13	.15679	.98762	25	.01238	.14441	12	.85559	49
12	.84334	13	.15666	.98787	25	.01213	.14453	13	.85547	48
13	.84347	13	.15653	.98812	26	.01188	.14466	12	.85534	47
14	.84360	13	.15640	.98838	25	.01162	.14478	12	.85522	46
15	9.84373	12	10.15627	9.98863	25	10.01137	10.14490	13	9.85510	45
16	.84385	13	.15615	.98888	25	.01112	.14503	12	.85497	44
17	.84398	13	.15602	.98913	26	.01087	.14515	12	.85485	43
18	.84411	13	.15589	.98939	25	.01061	.14527	13	.85473	42
19	.84424	13	.15576	.98964	25	.01036	.14540	12	.85460	41
20	9.84437	13	10.15563	9.98989	26	10.01011	10.14552	12	9.85448	40
21	.84450	13	.15550	.99015	25	.00985	.14564	13	.85436	39
22	.84463	13	.15537	.99040	25	.00960	.14577	12	.85423	38
23	.84476	13	.15524	.99065	25	.00935	.14589	12	.85411	37
24	.84489	13	.15511	.99090	26	.00910	.14601	13	.85399	36
25	9.84502	13	10.15498	9.99116	25	10.00884	10.14614	12	9.85386	35
26	.84515	13	.15485	.99141	25	.00859	.14626	13	.85374	34
27	.84528	12	.15472	.99166	25	.00834	.14639	12	.85361	33
28	.84540	13	.15460	.99191	26	.00809	.14651	12	.85349	32
29	.84553	13	.15447	.99217	25	.00783	.14663	13	.85337	31
30	9.84566	13	10.15434	9.99242	25	10.00758	10.14676	12	9.85324	30
31	.84579	13	.15421	.99267	26	.00733	.14688	13	.85312	29
32	.84592	13	.15408	.99293	25	.00707	.14701	12	.85299	28
33	.84605	13	.15395	.99318	25	.00682	.14713	13	.85287	27
34	.84618	12	.15382	.99343	25	.00657	.14726	12	.85274	26
35	9.84630	13	10.15370	9.99368	26	10.00632	10.14738	12	9.85262	25
36	.84643	13	.15357	.99394	25	.00606	.14750	13	.85250	24
37	.84656	13	.15344	.99419	25	.00581	.14763	12	.85237	23
38	.84669	13	.15331	.99444	25	.00556	.14775	13	.85225	22
39	.84682	12	.15318	.99469	26	.00531	.14788	12	.85212	21
40	9.84694	13	10.15306	9.99495	25	10.00505	10.14800	13	9.85200	20
41	.84707	13	.15293	.99520	25	.00480	.14813	12	.85187	19
42	.84720	13	.15280	.99545	25	.00455	.14825	13	.85175	18
43	.84733	12	.15267	.99570	26	.00430	.14838	12	.85162	17
44	.84745	13	.15255	.99596	25	.00404	.14850	13	.85150	16
45	9.84758	13	10.15242	9.99621	25	10.00379	10.14863	12	9.85137	15
46	.84771	13	.15229	.99646	26	.00354	.14875	13	.85125	14
47	.84784	12	.15216	.99672	25	.00328	.14888	12	.85112	13
48	.84796	13	.15204	.99697	25	.00303	.14900	13	.85100	12
49	.84809	13	.15191	.99722	25	.00278	.14913	13	.85087	11
50	9.84822	13	10.15178	9.99747	26	10.00253	10.14926	12	9.85074	10
51	.84835	12	.15165	.99773	25	.00227	.14938	13	.85062	9
52	.84847	13	.15153	.99798	25	.00202	.14951	12	.85049	8
53	.84860	13	.15140	.99823	25	.00177	.14963	13	.85037	7
54	.84873	12	.15127	.99848	26	.00152	.14976	12	.85024	6
55	9.84885	13	10.15115	9.99874	25	10.00126	10.14988	13	9.85012	5
56	.84898	13	.15102	.99899	25	.00101	.15001	13	.84999	4
57	.84911	12	.15089	.99924	25	.00076	.15014	12	.84986	3
58	.84923	13	.15077	.99949	26	.00051	.15026	13	.84974	2
59	.84936	13	.15064	.99975	25	.00025	.15039	12	.84961	1
60	9.84949		10.15051	10.00000		10.00000	10.15051		9.84949	0
134° →	cos	Diff. 1′	sec	cot	Diff. 1′	tan	csc	Diff. 1′	sin	← 45°