

Tables and Formulas

Trigonometric Functions

SIN	0°	12°	24°	36°	48°	60°
0	.0000	.0035	.0070	.0105	.0140	.0175
1	.0175	.0209	.0244	.0279	.0314	.0349
2	.0349	.0384	.0419	.0454	.0488	.0523
3	.0523	.0558	.0593	.0628	.0663	.0698
4	.0698	.0732	.0767	.0802	.0837	.0872
5	.0872	.0906	.0941	.0976	.1011	.1045
6	.1045	.1080	.1115	.1149	.1184	.1219
7	.1219	.1253	.1288	.1323	.1357	.1392
8	.1392	.1426	.1461	.1495	.1530	.1564
9	.1564	.1599	.1633	.1668	.1702	.1736
10	.1736	.1771	.1805	.1840	.1874	.1908
11	.1908	.1942	.1977	.2011	.2045	.2079
12	.2079	.2113	.2147	.2181	.2215	.2250
13	.2250	.2284	.2317	.2351	.2385	.2419
14	.2419	.2453	.2487	.2521	.2555	.2589
15	.2589	.2622	.2656	.2689	.2723	.2756
16	.2756	.2790	.2823	.2857	.2890	.2924
17	.2924	.2957	.2990	.3024	.3057	.3090
18	.3090	.3123	.3156	.3190	.3223	.3256
19	.3256	.3289	.3322	.3355	.3388	.3421
20	.3421	.3454	.3486	.3519	.3551	.3584
21	.3584	.3616	.3649	.3681	.3714	.3746
22	.3746	.3778	.3811	.3843	.3875	.3907
23	.3907	.3939	.3971	.4003	.4035	.4067
24	.4067	.4099	.4131	.4163	.4195	.4226
25	.4226	.4258	.4289	.4321	.4353	.4384
26	.4384	.4415	.4446	.4478	.4509	.4540
27	.4540	.4571	.4602	.4633	.4664	.4695
28	.4695	.4726	.4756	.4787	.4818	.4848
29	.4848	.4879	.4909	.4939	.4970	.5000
30	.5000	.5030	.5060	.5090	.5120	.5150
31	.5150	.5180	.5210	.5240	.5270	.5299
32	.5299	.5329	.5358	.5388	.5417	.5446
33	.5446	.5476	.5505	.5534	.5563	.5592
34	.5592	.5621	.5650	.5679	.5707	.5736
35	.5736	.5764	.5793	.5821	.5850	.5878
36	.5878	.5906	.5934	.5962	.5990	.6018
37	.6018	.6046	.6074	.6101	.6129	.6157
38	.6157	.6184	.6211	.6238	.6265	.6292
39	.6292	.6320	.6347	.6374	.6401	.6428
40	.6428	.6455	.6481	.6508	.6534	.6561
41	.6561	.6587	.6613	.6639	.6665	.6691
42	.6691	.6717	.6743	.6769	.6794	.6820
43	.6820	.6845	.6871	.6896	.6921	.6946
44	.6946	.6972	.6997	.7022	.7046	.7071
45	.7071	.7096	.7120	.7145	.7169	.7193
46	.7193	.7217	.7241	.7265	.7289	.7313
47	.7313	.7337	.7361	.7385	.7408	.7431
48	.7431	.7455	.7478	.7501	.7524	.7547
49	.7547	.7570	.7593	.7615	.7638	.7660
50	.7660	.7683	.7705	.7727	.7749	.7771
51	.7771	.7793	.7815	.7837	.7859	.7880
52	.7880	.7902	.7923	.7944	.7965	.7986
53	.7986	.8007	.8028	.8049	.8070	.8090
54	.8090	.8111	.8131	.8151	.8171	.8192
55	.8192	.8211	.8231	.8251	.8271	.8291
56	.8291	.8310	.8329	.8348	.8368	.8387
57	.8387	.8406	.8425	.8443	.8462	.8480
58	.8480	.8499	.8517	.8536	.8554	.8572
59	.8572	.8590	.8607	.8625	.8643	.8660
60	.8660	.8678	.8695	.8712	.8729	.8746
61	.8746	.8763	.8780	.8796	.8813	.8829
62	.8829	.8846	.8862	.8878	.8894	.8910
63	.8910	.8926	.8942	.8957	.8973	.8988
64	.8988	.9003	.9018	.9033	.9048	.9063
65	.9063	.9078	.9092	.9107	.9121	.9135
66	.9135	.9150	.9164	.9178	.9191	.9205
67	.9205	.9219	.9232	.9245	.9259	.9272
68	.9272	.9285	.9298	.9311	.9323	.9336
69	.9336	.9348	.9361	.9373	.9385	.9397
70	.9397	.9409	.9421	.9432	.9444	.9455
71	.9455	.9466	.9478	.9489	.9500	.9511
72	.9511	.9521	.9532	.9542	.9553	.9563
73	.9563	.9573	.9583	.9593	.9603	.9613
74	.9613	.9622	.9632	.9641	.9650	.9659
75	.9659	.9668	.9677	.9686	.9694	.9703
76	.9703	.9711	.9720	.9728	.9736	.9744
77	.9744	.9751	.9759	.9767	.9774	.9781
78	.9781	.9788	.9796	.9803	.9810	.9816
79	.9816	.9823	.9829	.9836	.9842	.9848
80	.9848	.9854	.9860	.9866	.9871	.9877
81	.9877	.9882	.9888	.9893	.9898	.9903
82	.9903	.9907	.9912	.9917	.9921	.9925
83	.9925	.9929	.9933	.9938	.9942	.9945
84	.9945	.9949	.9952	.9956	.9959	.9962
85	.9962	.9965	.9968	.9971	.9973	.9976
86	.9976	.9978	.9980	.9982	.9984	.9986
87	.9986	.9988	.9990	.9991	.9993	.9994
88	.9994	.9995	.9996	.9997	.9998	.9998
89	.9998	.9999	.9999	.9999	.9999	.9999
90	1.0000					

TAN	0°	12°	24°	36°	48°	60°
0	.0000	.0035	.0070	.0105	.0140	.0175
1	.0175	.0209	.0244	.0279	.0314	.0349
2	.0349	.0384	.0419	.0454	.0488	.0523
3	.0523	.0558	.0593	.0628	.0663	.0698
4	.0698	.0732	.0767	.0802	.0837	.0872
5	.0872	.0906	.0941	.0976	.1011	.1045
6	.1045	.1080	.1115	.1149	.1184	.1219
7	.1219	.1253	.1288	.1323	.1357	.1392
8	.1392	.1426	.1461	.1495	.1530	.1564
9	.1564	.1599	.1633	.1668	.1702	.1736
10	.1736	.1771	.1805	.1840	.1874	.1908
11	.1908	.1942	.1977	.2011	.2045	.2079
12	.2079	.2113	.2147	.2181	.2215	.2250
13	.2250	.2284	.2317	.2351	.2385	.2419
14	.2419	.2453	.2487	.2521	.2555	.2589
15	.2589	.2622	.2656	.2689	.2723	.2756
16	.2756	.2790	.2823	.2857	.2890	.2924
17	.2924	.2957	.2990	.3024	.3057	.3090
18	.3090	.3123	.3156	.3190	.3223	.3256
19	.3256	.3289	.3322	.3355	.3388	.3421
20	.3421	.3454	.3486	.3519	.3551	.3584
21	.3584	.3616	.3649	.3681	.3714	.3746
22	.3746	.3778	.3811	.3843	.3875	.3907
23	.3907	.3939	.3971	.4003	.4035	.4067
24	.4067	.4099	.4131	.4163	.4195	.4226
25	.4226	.4258	.4289	.4321	.4353	.4384
26	.4384	.4415	.4446	.4478	.4509	.4540
27	.4540	.4571	.4602	.4633	.4664	.4695
28	.4695	.4726	.4756	.4787	.4818	.4848
29	.4848	.4879	.4909	.4939	.4970	.5000
30	.5000	.5030	.5060	.5090	.5120	.5150
31	.5150	.5180	.5210	.5240	.5270	.5299
32	.5299	.5329	.5358	.5388	.5417	.5446
33	.5446	.5476	.5505	.5534	.5563	.5592
34	.5592	.5621	.5650	.5679	.5707	.5736
35	.5736	.5764	.5793	.5821	.5850	.5878
36	.5878	.5906	.5934	.5962	.5990	.6018
37	.6018	.6046	.6074	.6101	.6129	.6157
38	.6157	.6184	.6211	.6238	.6265	.6292
39	.6292	.6320	.6347	.6374	.6401	.6428
40	.6428	.6455	.6481	.6508	.6534	.6561
41	.6561	.6587	.6613	.6639	.6665	.6691
42	.6691	.6717	.6743	.6769	.6794	.6820
43	.6820	.6845	.6871	.6896	.6921	.6946
44	.6946	.6972	.6997	.7022	.7046	.7071
45	.7071	.7096	.7120	.7145	.7169	.7193
46	.7193	.7217	.7241	.7265	.7289	.7313
47	.7313	.7337	.7361	.7385	.7408	.7431
48	.7431	.7455	.7478	.7501	.7524	.7547
49	.7547	.7570	.7593	.7615	.7638	.7660
50	.7660	.7683	.7705	.7727	.7749	.7771
51	.7771	.7793	.7815	.7837	.7859	.7880
52	.7880	.7902	.7923	.7944	.7965	.7986
53	.7986	.8007	.8028	.8049	.8070	.8090
54	.8090	.8111	.8131	.8151	.8171	.8192
55	.8192	.8211	.8231	.8251	.8271	.8291
56	.8291	.8310	.8329	.8348	.8368	.8387
57	.8387	.8406	.8425	.8443	.8462	.8480
58	.8480	.8499	.8517	.8536	.8554	.8572
59	.8572	.8590	.8607	.8625	.8643	.8660
60	.8660	.8678	.8695	.8712	.8729	.8746
61	.8746	.8763	.8780	.8796	.8813	.8829
62	.8829	.8846	.8862	.8878	.8894	.8910
63	.8910	.8926	.8942	.8957	.8973	.8988
64	.8988	.9003	.9018	.9033	.9048	.9063
65	.9063	.9078	.9092	.9107	.9121	.9135
66	.9135	.9150	.9164	.9178	.9191	.9205
67	.9205	.9219	.9232	.9245	.9259	.9272
68	.9272	.9285	.9298	.9311	.9323	.9336
69	.9336	.9348	.9361	.9373	.9385	.9397
70	.9397	.9409	.9421	.9432	.9444	.9455
71	.9455	.9466	.9478	.9489	.9500	.9511
72	.9511	.9521	.9532	.9542	.9553	.9563
73	.9563	.9573	.9583	.9593	.9603	.9613
74	.9613	.9622	.9632	.9641	.9650	.9659
75	.9659	.9668	.9677	.9686	.9694	.9703
76	.9703	.9711	.9720	.9728	.9736	.9744
77	.9744	.9751	.9759	.9767	.9774	.9781
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79	.9816	.9823	.9829	.9836	.9842	.9848
80	.9848	.9854	.9860	.9866	.9871	.9877
81	.9877	.9882	.9888	.9893	.9898	.9903
82	.9903	.9907	.9912	.9917	.9921	.9925
83	.9925	.9929	.9933	.9938	.9942	.9945
84	.9945	.9949	.9952	.9956	.9959	.9962
85	.9962	.9965	.9968	.9971	.9973	.9976
86	.9976	.9978	.9980	.9982	.9984	.9986
87	.9986	.9988	.9990	.9991	.9993	.9994
88	.9994	.9995	.9996	.9997	.9998	.9998
89	.9998	.9999	.9999	.9999	.9999	.9999
90	1.0000					