

TABLE OF TRIGONOMETRIC RATIOS								
θ	$\sin(\theta)$	$\cos(\theta)$	$\tan(\theta)$		θ	$\sin(\theta)$	$\cos(\theta)$	$\tan(\theta)$
0	0.000	1.000	0.000		45	0.707	0.707	1.000
1	0.017	1.000	0.017		46	0.719	0.695	1.036
2	0.035	0.999	0.035		47	0.731	0.682	1.072
3	0.052	0.999	0.052		48	0.743	0.669	1.111
4	0.070	0.998	0.070		49	0.755	0.656	1.150
5	0.087	0.996	0.087		50	0.766	0.643	1.192
6	0.105	0.995	0.105		51	0.777	0.629	1.235
7	0.122	0.993	0.123		52	0.788	0.616	1.280
8	0.139	0.990	0.141		53	0.799	0.602	1.327
9	0.156	0.988	0.158		54	0.809	0.588	1.376
10	0.174	0.985	0.176		55	0.819	0.574	1.428
11	0.191	0.982	0.194		56	0.829	0.559	1.483
12	0.208	0.978	0.213		57	0.839	0.545	1.540
13	0.225	0.974	0.231		58	0.848	0.530	1.600
14	0.242	0.970	0.249		59	0.857	0.515	1.664
15	0.259	0.966	0.268		60	0.866	0.500	1.732
16	0.276	0.961	0.287		61	0.875	0.485	1.804
17	0.292	0.956	0.306		62	0.883	0.469	1.881
18	0.309	0.951	0.325		63	0.891	0.454	1.963
19	0.326	0.946	0.344		64	0.899	0.438	2.050
20	0.342	0.940	0.364		65	0.906	0.423	2.145
21	0.358	0.934	0.384		66	0.914	0.407	2.246
22	0.375	0.927	0.404		67	0.921	0.391	2.356
23	0.391	0.921	0.424		68	0.927	0.375	2.475
24	0.407	0.914	0.445		69	0.934	0.358	2.605
25	0.423	0.906	0.466		70	0.940	0.342	2.747
26	0.438	0.899	0.488		71	0.946	0.326	2.904
27	0.454	0.891	0.510		72	0.951	0.309	3.078
28	0.469	0.883	0.532		73	0.956	0.292	3.271
29	0.485	0.875	0.554		74	0.961	0.276	3.487
30	0.500	0.866	0.577		75	0.966	0.259	3.732
31	0.515	0.857	0.601		76	0.970	0.242	4.011
32	0.530	0.848	0.625		77	0.974	0.225	4.331
33	0.545	0.839	0.649		78	0.978	0.208	4.705
34	0.559	0.829	0.675		79	0.982	0.191	5.145
35	0.574	0.819	0.700		80	0.985	0.174	5.671
36	0.588	0.809	0.727		81	0.988	0.156	6.314
37	0.602	0.799	0.754		82	0.990	0.139	7.115
38	0.616	0.788	0.781		83	0.993	0.122	8.144
39	0.629	0.777	0.810		84	0.995	0.105	9.514
40	0.643	0.766	0.839		85	0.996	0.087	11.430
41	0.656	0.755	0.869		86	0.998	0.070	14.301
42	0.669	0.743	0.900		87	0.999	0.052	19.081
43	0.682	0.731	0.933		88	0.999	0.035	28.636
44	0.695	0.719	0.966		89	1.000	0.017	57.290
45	0.707	0.707	1.000		90	1.000	0.000	