

Table 4.11 CIRCULAR TANGENTS, COTANGENTS, SECANTS AND COSECANTS
TO FIVE TENTHS OF A DEGREE

θ	tan θ			cot θ			sec θ		csc θ		$90^\circ - \theta$
0.0°	0.00000	00000	00000	∞			1.00000	000	∞		90.0°
0.5	0.00872	68677	90759	114.58865	01293	09608	1.00003	808	114.59301	348	89.5
1.0	0.01745	50649	28217	57.28996	16307	59424	1.00015	233	57.29868	850	89.0
1.5	0.02618	59215	69187	38.18845	92970	25609	1.00034	279	38.20155	001	88.5
2.0	0.03492	07694	91747	28.63625	32829	15603	1.00060	954	28.65370	835	88.0
2.5	0.04366	09429	08512	22.90376	55484	31198	1.00095	269	22.92558	563	87.5
3.0	0.05240	77792	83041	19.08113	66877	28211	1.00137	235	19.10732	261	87.0
3.5	0.06116	26201	50484	16.34985	54760	99672	1.00186	869	16.38040	824	86.5
4.0	0.06992	68119	43510	14.30066	62567	11928	1.00244	190	14.33558	703	86.0
4.5	0.07870	17068	24618	12.70620	47361	74704	1.00309	220	12.74549	484	85.5
5.0	0.08748	86635	25924	11.43005	23027	61343	1.00381	984	11.47371	325	85.0
5.5	0.09628	90481	97538	10.38539	70801	38159	1.00462	509	10.43343	052	84.5
6.0	0.10510	42352	65676	9.51436	44542	22585	1.00550	828	9.56677	223	84.0
6.5	0.11393	56083	01645	8.77688	73568	69956	1.00646	973	8.83367	147	83.5
7.0	0.12278	45609	02904	8.14434	64279	74594	1.00750	983	8.20550	905	83.0
7.5	0.13165	24975	87396	7.59575	41127	25150	1.00862	896	7.66129	758	82.5
8.0	0.14054	08347	02391	7.11536	97223	84209	1.00982	757	7.18529	653	82.0
8.5	0.14945	10013	49128	6.69115	62383	17409	1.01110	613	6.76546	908	81.5
9.0	0.15838	44403	24536	6.31375	15146	75043	1.01246	513	6.39245	322	81.0
9.5	0.16734	26090	81419	5.97576	43644	33065	1.01390	510	6.05885	796	80.5
10.0	0.17632	69807	08465	5.67128	18196	17709	1.01542	661	5.75877	049	80.0
10.5	0.18533	90449	31534	5.39551	71743	19137	1.01703	027	5.48740	427	79.5
11.0	0.19438	03091	37718	5.14455	40159	70310	1.01871	670	5.24084	307	79.0
11.5	0.20345	22994	23699	4.91515	70310	71205	1.02048	657	5.01585	174	78.5
12.0	0.21255	65616	70022	4.70463	01094	78454	1.02234	059	4.80973	435	78.0
12.5	0.22169	46626	42940	4.51070	85036	62057	1.02427	951	4.62022	632	77.5
13.0	0.23086	81911	25563	4.33147	58742	84155	1.02630	411	4.44541	148	77.0
13.5	0.24007	87590	80116	4.16529	97700	90417	1.02841	519	4.28365	757	76.5
14.0	0.24932	80028	43180	4.01078	09335	35844	1.03061	363	4.13356	550	76.0
14.5	0.25861	75843	55890	3.86671	30948	98738	1.03290	031	3.99392	916	75.5
15.0	0.26794	91924	31122	3.73205	08075	68877	1.03527	618	3.86370	331	75.0
15.5	0.27732	45440	59838	3.60588	35087	60874	1.03774	221	3.74197	754	74.5
16.0	0.28674	53857	58808	3.48741	44438	40908	1.04029	944	3.62795	528	74.0
16.5	0.29621	34949	62080	3.37594	34225	91246	1.04294	891	3.52093	652	73.5
17.0	0.30573	06814	58660	3.27085	26184	84141	1.04569	176	3.42030	362	73.0
17.5	0.31529	87888	78983	3.17159	48023	63212	1.04852	913	3.32550	952	72.5
18.0	0.32491	96962	32906	3.07768	35371	75253	1.05146	222	3.23606	798	72.0
18.5	0.33459	53195	02073	2.98868	49627	42893	1.05449	231	3.15154	530	71.5
19.0	0.34432	76132	89665	2.90421	08776	75823	1.05762	068	3.07155	349	71.0
19.5	0.35411	85725	30698	2.82391	28856	00801	1.06084	870	2.99574	431	70.5
20.0	0.36397	02342	66202	2.74747	74194	54622	1.06417	777	2.92380	440	70.0
20.5	0.37388	46794	84804	2.67462	14939	26824	1.06760	936	2.85545	095	69.5
21.0	0.38386	40350	35416	2.60508	90646	93801	1.07114	499	2.79042	811	69.0
21.5	0.39391	04756	14942	2.53864	78956	64307	1.07478	624	2.72850	383	68.5
22.0	0.40402	62258	35157	2.47508	68534	16296	1.07853	474	2.66946	716	68.0
22.5	0.41421	35623	73095	2.41421	35623	73095	1.08239	220	2.61312	593	67.5
90° - θ		cot θ		tan θ			csc θ		sec θ		θ
		$\left[\begin{smallmatrix} (-5)1 \\ 8 \end{smallmatrix} \right]$		$\left[\begin{smallmatrix} (-5)1 \\ 4 \end{smallmatrix} \right]$							