

Table 4.19 ROOTS x_n OF $\tan x = \lambda x$

$-\lambda$	x_1	x_2	x_3	x_4	x_5	x_6	x_7	x_8	x_9
0.00	3.14159	6.28319	9.42478	12.56637	15.70796	18.84956	21.99115	25.13274	28.27433
0.05	2.99304	5.99209	9.00185	12.02503	15.06247	18.11361	21.17717	24.25156	27.33519
0.10	2.86277	5.76056	8.70831	11.70268	14.73347	17.79083	20.86724	23.95737	27.05755
0.15	2.75032	5.58578	8.51805	11.52018	14.56638	17.64009	20.73148	23.83468	26.94607
0.20	2.65366	5.45435	8.39135	11.40863	14.46987	17.55621	20.65782	23.76928	26.88740
0.25	2.57043	5.35403	8.30293	11.33482	14.40797	17.50343	20.61203	23.72894	26.85142
0.30	2.49840	5.27587	8.23845	11.28284	14.36517	17.46732	20.58092	23.70166	26.82716
0.35	2.43566	5.21370	8.18965	11.24440	14.33391	17.44113	20.55844	23.68201	26.80971
0.40	2.38064	5.16331	8.15156	11.21491	14.31012	17.42129	20.54146	23.66719	26.79656
0.45	2.33208	5.12176	8.12108	11.19159	14.29142	17.40574	20.52818	23.65561	26.78631
0.50	2.28893	5.08698	8.09616	11.17271	14.27635	17.39324	20.51752	23.64632	26.77809
0.55	2.25037	5.05750	8.07544	11.15712	14.26395	17.38298	20.50877	23.63871	26.77135
0.60	2.21571	5.03222	8.05794	11.14403	14.25357	17.37439	20.50147	23.63235	26.76572
0.65	2.18440	5.01031	8.04298	11.13289	14.24475	17.36711	20.49528	23.62697	26.76096
0.70	2.15598	4.99116	8.03004	11.12330	14.23717	17.36086	20.48996	23.62235	26.75688
0.75	2.13008	4.97428	8.01875	11.11496	14.23059	17.35543	20.48535	23.61834	26.75333
0.80	2.10638	4.95930	8.00881	11.10764	14.22482	17.35068	20.48131	23.61483	26.75023
0.85	2.08460	4.94592	7.99999	11.10116	14.21971	17.34648	20.47774	23.61173	26.74749
0.90	2.06453	4.93389	7.99212	11.09538	14.21517	17.34274	20.47457	23.60897	26.74506
0.95	2.04597	4.92303	7.98505	11.09021	14.21110	17.33939	20.47172	23.60651	26.74288
1.00	2.02876	4.91318	7.97867	11.08554	14.20744	17.33638	20.46917	23.60428	26.74092
λ^{-1}	x_1	x_2	x_3	x_4	x_5	x_6	x_7	x_8	x_9
-1.00	2.02876	4.91318	7.97867	11.08554	14.20744	17.33638	20.46917	23.60428	26.74092
-0.95	2.01194	4.90375	7.97258	11.08110	14.20395	17.33351	20.46673	23.60217	26.73905
-0.90	1.99465	4.89425	7.96648	11.07665	14.20046	17.33064	20.46430	23.60006	26.73718
-0.85	1.97687	4.88468	7.96036	11.07219	14.19697	17.32777	20.46187	23.59795	26.73532
-0.80	1.95857	4.87504	7.95422	11.06773	14.19347	17.32490	20.45943	23.59584	26.73345
-0.75	1.93974	4.86534	7.94807	11.06326	14.18997	17.32203	20.45700	23.59372	26.73159
-0.70	1.92035	4.85557	7.94189	11.05879	14.18647	17.31915	20.45456	23.59161	26.72972
-0.65	1.90036	4.84573	7.93571	11.05431	14.18296	17.31628	20.45212	23.58949	26.72785
-0.60	1.87976	4.83583	7.92950	11.04982	14.17946	17.31340	20.44968	23.58738	26.72598
-0.55	1.85852	4.82587	7.92329	11.04533	14.17594	17.31052	20.44724	23.58526	26.72411
-0.50	1.83660	4.81584	7.91705	11.04083	14.17243	17.30764	20.44480	23.58314	26.72225
-0.45	1.81396	4.80575	7.91080	11.03633	14.16892	17.30476	20.44236	23.58102	26.72038
-0.40	1.79058	4.79561	7.90454	11.03182	14.16540	17.30187	20.43992	23.57891	26.71851
-0.35	1.76641	4.78540	7.89827	11.02730	14.16188	17.29899	20.43748	23.57679	26.71664
-0.30	1.74140	4.77513	7.89198	11.02278	14.15835	17.29610	20.43503	23.57467	26.71477
-0.25	1.71551	4.76481	7.88567	11.01826	14.15483	17.29321	20.43259	23.57255	26.71290
-0.20	1.68868	4.75443	7.87936	11.01373	14.15130	17.29033	20.43014	23.57043	26.71102
-0.15	1.66087	4.74400	7.87303	11.00920	14.14777	17.28744	20.42769	23.56831	26.70915
-0.10	1.63199	4.73351	7.86669	11.00466	14.14424	17.28454	20.42525	23.56619	26.70728
-0.05	1.60200	4.72298	7.86034	11.00012	14.14070	17.28165	20.42280	23.56407	26.70541
0.00	1.57080	4.71239	7.85398	10.99557	14.13717	17.27875	20.42035	23.56194	26.70354
0.05	1.53830	4.70176	7.84761	10.99102	14.13363	17.27586	20.41790	23.55982	26.70166
0.10	1.50442	4.69108	7.84123	10.98647	14.13009	17.27297	20.41545	23.55770	26.69979
0.15	1.46904	4.68035	7.83484	10.98192	14.12655	17.27007	20.41300	23.55558	26.69792
0.20	1.43203	4.66958	7.82844	10.97736	14.12301	17.26718	20.41055	23.55345	26.69604
0.25	1.39325	4.65878	7.82203	10.97279	14.11946	17.26428	20.40810	23.55133	26.69417
0.30	1.35252	4.64793	7.81562	10.96823	14.11592	17.26138	20.40565	23.54921	26.69230
0.35	1.30965	4.63705	7.80919	10.96366	14.11237	17.25848	20.40320	23.54708	26.69042
0.40	1.26440	4.62614	7.80276	10.95909	14.10882	17.25558	20.40075	23.54496	26.68855
0.45	1.21649	4.61519	7.79633	10.95452	14.10527	17.25268	20.39829	23.54283	26.68668
0.50	1.16556	4.60422	7.78988	10.94994	14.10172	17.24978	20.39584	23.54071	26.68480
0.55	1.11118	4.59321	7.78344	10.94537	14.09817	17.24688	20.39339	23.53858	26.68293
0.60	1.05279	4.58219	7.77698	10.94079	14.09462	17.24398	20.39094	23.53646	26.68105
0.65	0.98966	4.57114	7.77053	10.93621	14.09107	17.24108	20.38848	23.53433	26.67918
0.70	0.92079	4.56007	7.76407	10.93163	14.08752	17.23817	20.38603	23.53221	26.67730
0.75	0.84473	4.54899	7.75760	10.92704	14.08396	17.23527	20.38357	23.53008	26.67543
0.80	0.75931	4.53789	7.75114	10.92246	14.08041	17.23237	20.38112	23.52796	26.67355
0.85	0.66086	4.52678	7.74467	10.91788	14.07686	17.22946	20.37867	23.52583	26.67168
0.90	0.54228	4.51566	7.73820	10.91329	14.07330	17.22656	20.37621	23.52370	26.66980
0.95	0.38537	4.50454	7.73172	10.90871	14.06975	17.22366	20.37376	23.52158	26.66793
1.00	0.00000	4.49341	7.72525	10.90412	14.06619	17.22075	20.37130	23.51945	26.66605

For $\lambda=0$, see $j_{\frac{1}{2}}$ of Table 10.6.

$\langle \lambda \rangle$ = nearest integer to λ .