

ZEROS OF BESSEL FUNCTIONS OF HALF-INTEGER ORDER

Table 10.6

ν	s	$j_{\nu,s}$	$J'_{\nu}(j_{\nu,s})$	$y_{\nu,s}$	$(-1)^{n+1}Y'_{\nu}(y_{\nu,s})$	ν	s	$j_{\nu,s}$	$J'_{\nu}(j_{\nu,s})$	$y_{\nu,s}$	$(-1)^{n+1}Y'_{\nu}(y_{\nu,s})$
1/2	1	3.141593	-0.45015 82	1.570796	-0.63661 98	15/2	1	11.657032	-0.20550 46	9.457882	+0.20754 83
	2	6.283185	+0.31830 99	4.712389	+0.36755 26		2	15.431289	+0.19008 87	13.600629	-0.19801 01
	3	9.424778	-0.25989 89	7.853982	-0.28470 50		3	18.922999	-0.17582 99	17.197777	+0.18264 01
	4	12.566370	+0.22507 91	10.995574	+0.24061 97		4	22.295348	+0.16402 38	20.619612	-0.16964 44
	5	15.707963	-0.20131 68	14.137167	-0.21220 66		5			23.955267	+0.15890 14
	6	18.849556	+0.18377 63	17.278760	+0.19194 81						
	7	21.991149	-0.17014 38	20.420352	-0.17656 66						
	8			23.561945	+0.16437 45						
3/2	1	4.493409	-0.36741 35	2.798386	+0.44914 84	17/2	1	12.790782	-0.19382 82	10.529989	-0.19361 38
	2	7.725252	+0.28469 20	6.121250	-0.31827 37		2	16.641003	+0.18155 15	14.777175	+0.18810 92
	3	10.904122	-0.24061 69	9.317866	+0.25989 33		3	20.182471	-0.16922 10	18.434529	-0.17517 27
	4	14.066194	+0.21220 57	12.486454	-0.22507 76		4	23.591275	+0.15870 04	21.898570	+0.16373 75
	5	17.220755	-0.19194 77	15.644128	+0.20131 63	19/2	1	13.915823	-0.18376 12	11.597038	+0.18186 42
	6	20.371303	+0.17656 64	18.796404	-0.18377 61		2	17.838643	+0.17398 80	15.942945	-0.17944 10
	7	23.519452	-0.16437 44	21.945613	+0.17014 37		3	21.428487	-0.16326 17	19.658369	+0.16849 33
							4	24.873214	+0.15383 84	23.163734	-0.15837 45
5/2	1	5.763459	-0.31710 58	3.959528	-0.36184 68	21/2	1	15.033469	-0.17496 82	12.659840	-0.17179 22
	2	9.095011	+0.25973 30	7.451610	+0.28430 75		2	19.025854	+0.16722 59	17.099480	+0.17176 97
	3	12.322941	-0.22503 59	10.715647	-0.24053 93		3	22.662721	-0.15785 09	20.870973	-0.16247 13
	4	15.514603	+0.20130 14	13.921686	+0.21218 15		4			24.416749	+0.15347 56
	5	18.689036	-0.18376 96	17.103359	-0.19193 81	23/2	1	16.144743	-0.16720 39	13.719013	+0.16304 06
	6	21.853874	+0.17014 05	20.272369	+0.17656 19		2	20.203943	+0.16113 25	18.247994	-0.16491 86
	7			23.433926	-0.16437 21		3	23.886531	-0.15290 87	22.073692	+0.15700 50
7/2	1	6.987932	-0.28223 71	5.088498	+0.30882 36	25/2	1	17.250455	-0.16028 44	14.775045	-0.15534 97
	2	10.417119	+0.24019 23	8.733710	-0.25896 77		2	21.373972	+0.15560 47	19.389462	+0.15875 20
	3	13.698023	-0.21208 02	12.067544	+0.22485 68		3			23.267630	-0.15201 34
	4	16.923621	+0.19189 90	15.315390	-0.20124 01	27/2	1	18.351261	-0.15406 88	15.828325	+0.14852 56
	5	20.121806	-0.17654 40	18.525210	+0.18374 36		2	22.536817	+0.15056 00	20.524680	-0.15316 36
	6	23.304247	+0.16436 28	21.714547	-0.17012 77		3			24.453705	+0.14743 15
	7			24.891503	+0.15914 62		29/2	1	19.447703	-0.14844 69	16.879170
					2	23.693208		+0.14593 21	21.654309	+0.14806 91	
9/2	1	8.182561	-0.25620 49	6.197831	-0.27236 25	31/2	1	20.540230	-0.14333 12	17.927842	+0.13691 88
	2	11.704907	+0.22432 53	9.982466	+0.23908 76		2	24.843763	+0.14166 70	22.778902	-0.14340 05
	3	15.039665	-0.20107 12	13.385287	-0.21179 27	33/2	1	21.629221	-0.13865 11	18.974562	-0.13192 99
	4	18.301256	+0.18367 44	16.676625	+0.19179 35		2			23.898931	+0.13910 20
	5	21.525418	-0.17009 46	19.916796	-0.17649 69	35/2	1	22.715002	-0.13434 93	20.019515	+0.12738 05
	6	24.727566	+0.15912 86	23.128642	+0.16433 89						
11/2	1	9.355812	-0.23580 60	7.293692	+0.24538 14	37/2	1	23.797849	-0.13037 81	21.062860	-0.12321 13
	2	12.966530	+0.21109 29	11.206497	-0.22293 49		39/2	1	24.878005	-0.12669 81	22.104735
	3	16.354710	-0.19155 58	14.676387	+0.20067 86						
	4	19.653152	+0.17639 49	18.011609	-0.18352 21						
	5	22.904551	-0.16428 83	21.283249	+0.17002 38						
	6			24.518929	-0.15909 15						
13/2	1	10.512835	-0.21926 48	8.379626	-0.22441 70						
	2	14.207392	+0.19983 04	12.411301	+0.20946 65						
	3	17.647975	-0.18321 82	15.945983	-0.19106 59						
	4	20.983463	+0.16988 82	19.324820	+0.17619 60						
	5	24.262768	-0.15902 21	22.628417	-0.16419 26						

Values to greater accuracy and over a wider range are given in [10.31].

From National Bureau of Standards, Tables of spherical Bessel functions, vols. I, II. Columbia Univ. Press, New York, N.Y., 1947 (with permission).