

Table 9.1 BESSEL FUNCTIONS—ORDERS 0, 1 AND 2

$x$	$J_0(x)$			$J_1(x)$		$J_2(x)$	
0.0	1.00000	00000	00000	0.00000	00000	0.00000	00000
0.1	0.99750	15620	66040	0.04993	75260	0.00124	89587
0.2	0.99002	49722	39576	0.09950	08326	0.00498	33542
0.3	0.97762	62465	38296	0.14831	88163	0.01116	58619
0.4	0.96039	82266	59563	0.19602	65780	0.01973	46631
0.5	0.93846	98072	40813	0.24226	84577	0.03060	40235
0.6	0.91200	48634	97211	0.28670	09881	0.04366	50967
0.7	0.88120	08886	07405	0.32899	57415	0.05878	69444
0.8	0.84628	73527	50480	0.36884	20461	0.07581	77625
0.9	0.80752	37981	22545	0.40594	95461	0.09458	63043
1.0	0.76519	76865	57967	0.44005	05857	0.11490	34849
1.1	0.71962	20185	27511	0.47090	23949	0.13656	41540
1.2	0.67113	27442	64363	0.49828	90576	0.15934	90183
1.3	0.62008	59895	61509	0.52202	32474	0.18302	66988
1.4	0.56685	51203	74289	0.54194	77139	0.20735	58995
1.5	0.51182	76717	35918	0.55793	65079	0.23208	76721
1.6	0.45540	21676	39381	0.56989	59353	0.25696	77514
1.7	0.39798	48594	46109	0.57776	52315	0.28173	89424
1.8	0.33998	64110	42558	0.58151	69517	0.30614	35353
1.9	0.28181	85593	74385	0.58115	70727	0.32992	57277
2.0	0.22389	07791	41236	0.57672	48078	0.35283	40286
2.1	0.16660	69803	31990	0.56829	21358	0.37462	36252
2.2	0.11036	22669	22174	0.55596	30498	0.39505	86875
2.3	0.05553	97844	45602	0.53987	25326	0.41391	45917
2.4	+0.00250	76832	97244	0.52018	52682	0.43098	00402
2.5	-0.04838	37764	68198	0.49709	41025	0.44605	90584
2.6	-0.09680	49543	97038	0.47081	82665	0.45897	28517
2.7	-0.14244	93700	46012	0.44160	13791	0.46956	15027
2.8	-0.18503	60333	64387	0.40970	92469	0.47768	54954
2.9	-0.22431	15457	91968	0.37542	74818	0.48322	70505
3.0	-0.26005	19549	01933	0.33905	89585	0.48609	12606
3.1	-0.29206	43476	50698	0.30092	11331	0.48620	70142
3.2	-0.32018	81696	57123	0.26134	32488	0.48352	77001
3.3	-0.34429	62603	98885	0.22066	34530	0.47803	16865
3.4	-0.36429	55967	62000	0.17922	58517	0.46972	25683
3.5	-0.38012	77399	87263	0.13737	75274	0.45862	91842
3.6	-0.39176	89837	00798	0.09546	55472	0.44480	53988
3.7	-0.39923	02033	71191	0.05383	39877	0.42832	96562
3.8	-0.40255	64101	78564	+0.01282	10029	0.40930	43065
3.9	-0.40182	60148	87640	-0.02724	40396	0.38785	47125
4.0	-0.39714	98098	63847	-0.06604	33280	0.36412	81459
4.1	-0.38866	96798	35854	-0.10327	32577	0.33829	24809
4.2	-0.37655	70543	67568	-0.13864	69421	0.31053	47010
4.3	-0.36101	11172	36535	-0.17189	65602	0.28105	92288
4.4	-0.34225	67900	03886	-0.20277	55219	0.25008	60982
4.5	-0.32054	25089	85121	-0.23106	04319	0.21784	89837
4.6	-0.29613	78165	74141	-0.25655	28361	0.18459	31052
4.7	-0.26933	07894	19753	-0.27908	07358	0.15057	30295
4.8	-0.24042	53272	91183	-0.29849	98581	0.11605	03864
4.9	-0.20973	83275	85326	-0.31469	46710	0.08129	15231
5.0	-0.17759	67713	14338	-0.32757	91376	0.04656	51163
		$\left[ \begin{smallmatrix} (-4)6 \\ 11 \end{smallmatrix} \right]$			$\left[ \begin{smallmatrix} (-4)5 \\ 8 \end{smallmatrix} \right]$		$\left[ \begin{smallmatrix} (-4)3 \\ 7 \end{smallmatrix} \right]$

$$J_{n+1}(x) = \frac{2n}{x} J_n(x) - J_{n-1}(x)$$

Compiled from British Association for the Advancement of Science, Bessel functions, Part II. Functions of positive integer order, Mathematical Tables, vol. X (Cambridge Univ. Press, Cambridge, England, 1952) and Harvard Computation Laboratory, Tables of the Bessel functions of the first kind of orders 0 through 135, vols. 3-14 (Harvard Univ. Press, Cambridge, Mass., 1947-1951) (with permission).