

Table 10.5 SPHERICAL BESSEL FUNCTIONS—VARIOUS ORDERS

$n$	$y_n(x)$		
	$x=1$	$x=2$	$x=5$
0	(-1)-5.40302 3059	(-1)+2.08073 4183	(-2)-5.67324 3709
1	(0)-1.38177 3291	(-1)-3.50612 0043	(-1)+1.80438 3675
2	(0)-3.60501 7566	(-1)-7.33991 4247	(-1)+1.64995 4576
3	(1)-1.66433 1454	(0)-1.48436 6557	(-2)-1.54429 0991
4	(2)-1.12898 1842	(0)-4.46129 1526	(-1)-1.86615 5315
5	(2)-9.99440 3434	(1)-1.85914 4531	(-1)-3.20465 0467
6	(4)-1.08809 4559	(1)-9.77916 5769	(-1)-5.18407 5714
7	(5)-1.40452 8524	(2)-6.17054 3296	(0)-1.02739 4639
8	(6)-2.09591 1840	(3)-4.53011 5815	(0)-2.56377 6345
9	(7)-3.54900 4843	(4)-3.78889 3009	(0)-7.68944 4934
10	(8)-6.72215 0083	(5)-3.55414 7201	(1)-2.66561 1441
11	(10)-1.40810 2512	(6)-3.69396 5631	(2)-1.04266 2356
12	(11)-3.23191 3629	(7)-4.21251 9003	(2)-4.52968 5692
13	(12)-8.06570 3047	(8)-5.22870 9098	(3)-2.16057 6611
14	(14)-2.17450 7909	(9)-7.01663 2092	(4)-1.12141 4513
15	(15)-6.29800 7233	(11)-1.01218 2944	(4)-6.28814 6513
16	(17)-1.95020 7734	(12)-1.56186 6932	(5)-3.78650 9387
17	(18)-6.42938 7516	(13)-2.56695 8608	(6)-2.43621 4730
18	(20)-2.24833 5423	(14)-4.47655 8894	(7)-1.66748 5217
19	(21)-8.31241 1677	(15)-8.25596 4368	(8)-1.20957 6913
20	(23)-3.23959 2219	(17)-1.60543 6493	(8)-9.26795 1403
30	(40)-2.94642 8547	(31)-1.40739 3871	(18)-7.76071 7570
40	(58)-8.02845 0851	(46)-3.72092 9322	(30)-2.05575 8716
50	(78)-2.73919 2285	(63)-1.23502 1944	(42)-6.96410 9188
100	(186)-6.68307 9463	(156)-2.65595 5830	(116)-1.79971 3983
$n$	$x=10$	$x=50$	$x=100$
0	(-2)+8.39071 5291	(-2)-1.92993 2057	(-3)-8.62318 8723
1	(-2)+6.27928 2638	(-3)+4.86151 0663	(-3)+4.97742 4524
2	(-2)-6.50693 0499	(-2)+1.95910 1121	(-3)+8.77251 1459
3	(-2)-9.53274 7888	(-3)-2.90240 9542	(-3)-4.53879 8951
4	(-3)-1.65993 0220	(-2)-1.99973 4855	(-3)-9.09022 7385
5	(-2)+9.38335 4168	(-4)-6.97113 1965	(-3)+3.72067 8486
6	(-1)+1.04876 8261	(-2)+1.98439 8364	(-3)+9.49950 2019
7	(-2)+4.25063 3221	(-3)+5.85654 8943	(-3)-2.48574 3224
8	(-2)-4.11173 2775	(-2)-1.80870 1896	(-3)-9.87236 3502
9	(-1)-1.12405 7894	(-2)-1.20061 3539	(-4)+8.07441 4285
10	(-1)-1.72453 6721	(-2)+1.35246 8751	(-2)+1.00257 7737
11	(-1)-2.49746 9220	(-2)+1.76865 0414	(-3)+1.29797 1820
12	(-1)-4.01964 2485	(-3)-5.38889 5605	(-3)-9.72724 3855
13	(-1)-7.55163 6993	(-2)-2.03809 5195	(-3)-3.72978 2784
14	(0)-1.63697 7739	(-3)-5.61681 8446	(-3)+8.72020 2503
15	(0)-3.99207 1745	(-2)+1.71231 9725	(-3)+6.25864 1510
16	(1)-1.07384 4467	(-2)+1.62332 0074	(-3)-6.78002 3635
17	(1)-3.14447 9567	(-3)-6.40928 4759	(-3)-8.49604 9309
18	(1)-9.93183 4017	(-2)-2.07197 0007	(-3)+3.80640 6377
19	(2)-3.36033 0630	(-3)-8.92329 3294	(-3)+9.90441 9669
20	(3)-1.21121 0605	(-2)+1.37595 3130	(-5)+5.63172 9379
30	(9)-6.90831 8646	(-2)-2.24122 6812	(-3)-5.41292 9349
40	(18)-1.51030 4919	(-5)+4.97879 7221	(-4)-7.04842 0407
50	(27)-4.52822 7272	(-2)-4.19000 0150	(-2)+1.07478 2297
100	(85)-8.57322 6309	(+18)-1.12569 2891	(-2)-2.29838 5049