

Roots of Bessel functions (15 digits)

The n-th roots of $J_m(x)=0$.

| $m \backslash n$ | n=1 | n=2 | n=3 | n=4 | n=5 |
|------------------|------------------|------------------|------------------|------------------|------------------|
| m=0 | 2.40482555769577 | 5.52007811028631 | 8.65372791291101 | 11.7915344390142 | 14.9309177084877 |
| m=1 | 3.83170597020751 | 7.01558666981561 | 10.1734681350627 | 13.3236919363142 | 16.4706300508776 |
| m=2 | 5.13562230184068 | 8.41724414039986 | 11.6198411721490 | 14.7959517823512 | 17.9598194949878 |
| m=3 | 6.38016189592398 | 9.76102312998166 | 13.0152007216984 | 16.2234661603187 | 19.4094152264350 |
| m=4 | 7.58834243450380 | 11.0647094885011 | 14.3725366716175 | 17.6159660498048 | 20.8269329569623 |
| m=5 | 8.77148381595995 | 12.3386041974669 | 15.7001740797116 | 18.9801338751799 | 22.2177998965612 |
| m=6 | 9.93610952421768 | 13.5892901705412 | 17.0038196678160 | 20.3207892135665 | 23.5860844355813 |
| m=7 | 11.0863700192450 | 14.8212687270131 | 18.2875828324817 | 21.6415410198484 | 24.9349278876730 |
| m=8 | 12.2250922640046 | 16.0377741908877 | 19.5545364309970 | 22.9451731318746 | 26.2668146411766 |
| m=9 | 13.3543004774353 | 17.2412203824891 | 20.8070477892641 | 24.2338852577505 | 27.5837489635730 |
| m=10 | 14.4755006865545 | 18.4334636669665 | 22.0469853646978 | 25.5094505541828 | 28.8873750635304 |

Roots of Derivatives of Bessel functions

The n-th roots of $J'_m(x)=0$.

| $m \backslash n$ | n=1 | n=2 | n=3 | n=4 | n=5 |
|------------------|------------------|------------------|------------------|------------------|------------------|
| m=0 | 3.83170597020751 | 7.01558666981561 | 10.1734681350627 | 13.3236919363142 | 16.4706300508776 |
| m=1 | 1.84118378134065 | 5.33144277352503 | 8.53631636634628 | 11.7060049025920 | 14.8635886339090 |
| m=2 | 3.05423692822714 | 6.70613319415845 | 9.96946782308759 | 13.1703708560161 | 16.3475223183217 |
| m=3 | 4.20118894121052 | 8.01523659837595 | 11.3459243107430 | 14.5858482861670 | 17.7887478660664 |
| m=4 | 5.31755312608399 | 9.28239628524161 | 12.6819084426388 | 15.9641070377315 | 19.1960288000489 |
| m=5 | 6.41561637570024 | 10.5198608737723 | 13.9871886301403 | 17.3128424878846 | 20.5755145213868 |
| m=6 | 7.50126614468414 | 11.7349359530427 | 15.2681814610978 | 18.6374430096662 | 21.9317150178022 |
| m=7 | 8.57783648971407 | 12.9323862370895 | 16.5293658843669 | 19.9418533665273 | 23.2680529264575 |
| m=8 | 9.64742165199721 | 14.1155189078946 | 17.7740123669152 | 21.2290626228531 | 24.5871974863176 |
| m=9 | 10.7114339706999 | 15.2867376673329 | 19.0045935379460 | 22.5013987267772 | 25.8912772768391 |
| m=10 | 11.7708766749555 | 16.4478527484865 | 20.2230314126817 | 23.7607158603274 | 27.1820215271905 |

Last modified at Wed Apr 10 21:22:34 2013.

Access Count: 62,641 (since 1-OCT, 2000).