

BesselJZero

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Notations

Traditional name

Zeros of the Bessel function of the first kind

Traditional notation

$j_{\nu,k}$

Mathematica StandardForm notation

`BesselJZero[ν , k]`

Primary definition

03.25.02.0001.01

$J_{\nu}(z) = 0$ /; $z = j_{\nu,k} \wedge \nu \in \mathbb{R} \wedge k \in \mathbb{N}^+$

Numbers $j_{\nu,k}$ /; $k \in \mathbb{N}^+$ form an ascending sequence of zeros of Bessel function of the first kind $J_{\nu}(z)$ with real ν located on the positive real axis ($j_{\nu,k}$ is the k th root of the equation $J_{\nu}(z) = 0$).

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