BesselJZero

Notations

Traditional name

Zeros of the Bessel function of the first kind

Traditional notation

$j_{v,k}$

Mathematica StandardForm notation

`BesselJZero[v, k]`

Primary definition

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$$J_v(z) = 0 \;/;\; z = j_{v,k} \bigwedge v \in \mathbb{R} \bigwedge k \in \mathbb{N}^+$$

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

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