

Some results on the zeros of derivatives of Bessel functions

Chrysi G. Kokologiannaki

Patras, Greece

We'll present some results on the zeros of $J_\nu^{(n)}(x)$, $n \geq 0$ and we'll give the order in which the first positive zeros of $J_\nu^{(n)}(x)$, $n = 1, 2, 3$ appear in the interval $(0, j_{\nu,1})$ where $j_{\nu,1}$ is the first positive zero of the Bessel function of first kind $J_\nu(x)$. We also give some results on the purely imaginary zeros of $J_\nu^{(n)}(x)$, $n = 1, 2, 3$.

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