Research Article

On the Exponent of Convergence for the Zeros of the Solutions of $y'' + Ay' + By = 0$

Abdullah Alotaibi

Department of Mathematics, King Abdulaziz University, P.O. Box 80203, Jeddah 21589, Saudi Arabia

Correspondence should be addressed to Abdullah Alotaibi, mathker11@hotmail.com

Let B and C be entire functions of order less than 1 with $C \not\equiv 0$ and B transcendental. We prove that every solution $f \not\equiv 0$ of the equation $y'' + Ay' + By = 0$, $A(z) = C(z)e^{\alpha z}$, $\alpha \in \mathbb{C} \setminus \{0\}$ being has zeros with infinite exponent of convergence.