Abstract

Using a functional analytic method we give some results concerning common zeros of the ordinary Bessel functions \( J_\nu(z) \) of first kind, with respect to \( \nu \) and fixed \( z \). A lower bound for the common zero \( z \) of the Bessel functions \( J_\nu(z) \), \( J_\mu(z) \), where \( \nu, \mu \) are known, is also given.