

HANKEL DETERMINANT FOR THE CLASS OF CONVEX FUNCTIONS

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Abstract

Let $f(z) = z + \sum_{n=2}^{\infty} a_n z^n$ be an analytic and univalent function in the unit disk $D = \{z : |z| < 1\}$ and let C denote the class of convex functions. The aim of the paper is to determine sharp upper bounds for the functional $|a_2 a_4 - \mu a_3^2|$ where μ is real for the class C .

Keyword : Univalent, convex, Hankel determinant