

HANKEL DETERMINANT FOR FUNCTIONS STARLIKE AND CONVEX WITH RESPECT TO SYMMETRIC POINTS

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ABSTRACT

Sakaguchi (1959) introduced the class of functions S_s^* , starlike with respect to symmetric points. In 1977, Das and Singh introduced similar class of functions C_s , convex with respect to symmetric points. Here, upper bound for the functional $|a_2a_4 - a_3^2|$ is attained for functions

$f(z) = z + \sum_{n=2}^{\infty} a_n z^n$ belonging to S_s^* and C_s . The result obtained is sharp.

Keywords: Starlike with respect to symmetric points; convex with respect to symmetric points; Hankel determinant

ABSTRAK

Sakaguchi (1959) telah memperkenalkan kelas fungsi S_s^* , bak-bintang terhadap titik simetri. Pada tahun 1977, Das dan Singh telah memperkenalkan kelas fungsi C_s , cembung terhadap titik simetri. Di sini, batas atas bagi fungsian $|a_2a_4 - a_3^2|$ diperoleh untuk fungsi $f(z) = z + \sum_{n=2}^{\infty} a_n z^n$ ahli kepada S_s^* and C_s . Hasilnya adalah yang terbaik.

Kata kunci: bak-bintang terhadap titik simetri; cembung terhadap titik simetri; penentu Hankel

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