

## HANKEL DETERMINANT FOR THE CLASS OF $K(\alpha, \beta)$

(Penentu Hankel untuk Kelas  $K(\alpha, \beta)$ )

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### ABSTRACT

Let  $f(z) = z + \sum_{n=2}^{\infty} a_n z^n$  be an analytic function in the open unit disc. A sharp upper bound is obtained for the functional  $|a_2 a_4 - a_3^2|$  for the class  $k(\alpha, \beta)$  of normalised close-to-convex functions defined in the open unit disc.

**Keywords:** starlike function; strongly close-to-convex function; Hankel determinant

### ABSTRAK

Andaikan  $f(z) = z + \sum_{n=2}^{\infty} a_n z^n$  suatu fungsi analisis dalam cakera unit terbuka. Batas atas terbaik bagi fungsian  $|a_2 a_4 - a_3^2|$  diperoleh untuk kelas fungsi hampir cembung ternormal  $k(\alpha, \beta)$  yang tertakrif dalam cakera unit terbuka.

**Kata kunci:** fungsi bakhintang; fungsi hampir cembung kuat; penentu Hankel

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Publication, Vol. 35.

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