

# Hankel determinant for functions starlike and convex with respect to symmetric points

## 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  $||a_2 a_4 - a_3^2||$  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.