A subclass of quasi-convex functions with respect to symmetric points

Abstract

Let Cs(A, B) denote the class of functions f which are analytic in an open unit disc D = {z: z < 1} and satisfying the condition $2(zf'(z))'/(f(z)-f(-z))' < 1+Az/1+Bz$, $-1 \leq B < A \leq 1$, $z \in D$. In this paper, we consider the class Ks* (A, B) consisting of analytic functions f and satisfying $(zf'(z))'/(g(z)-g(-z))' < 1+Az/1+Bz$, $g \in Cs(A,B)$, $-1 \leq B < A \leq 1$, $z \in D$. The aims of paper are to determine coefficient estimates, distortion bounds and preserving property for a certain integral operator for the class Ks* (A, B).