SUBCLASSES OF CLOSE-TO-CONVEX FUNCTIONS

[1]AINI JANTENG, [2]SUZEINI ABDUL HALIM, [3]MASLINA DARUS

[1,2]Institute of Mathematical Sciences, Universiti Malaya, 50603 Kuala Lumpur
[3]School of Mathematical Sciences, Faculty of Sciences and Technology,
Universiti Kebangsaan Malaysia,
43600 Bangi, Selangor
E-mail : [1]aini_jg@ums.edu.my, [2]suzeini@um.edu.my, [3]maslina@pkrisc.cc.ukm.my

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Abstract

We consider functions of the form $f(z)=z+\sum_{n=2}^{\infty}a_n z^n$ which are analytic, univalent and normalised. In [5], Janteng et al. introduced a new subclass of close-to-convex functions denoted by $K(\alpha)$ for $0\le\alpha<1$. In this paper, we introduce 3 new subclasses of $K(\alpha)$ denoted $K_s(\alpha)$, $K_c(\alpha)$ and $K_{sc}(\alpha)$ for $0\le\alpha<1$. Properties for functions in these classes and the behaviour of certain integral operators are considered.

Keywords: close-to-convex functions, starlike with respect to symmetric points, convex with respect to symmetric points, integral operators.

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