SUBCLASS OF UNIVALENT FUNCTIONS DEFINED BY HADAMARD PRODUCT INVOLVING A LINEAR OPERATOR

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Abstract

In the present paper, we introduce a subclass $S(\alpha, \beta, \gamma, \lambda, A, B, \mu)$ of univalent analytic functions in the open unit disc U. We study coefficient inequalities, closure theorem, neighbourhood property and partial sums, radii of starlikeness, convexity and close to convexity; weighted mean, arithmetic mean and linear combination.

1. Introduction

Let R denote the class of all functions of the form:

$$f(z) = z + \sum_{k=2}^{\infty} a_k z^k, \tag{1}$$

which are analytic and univalent in the open unit disk

$$U = \{z \in \mathbb{C} : |z| < 1\}.$$

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