A family of meromorphically p-valent functions with positive coefficients

M. K. Aouf

Abstract

In this paper we introduce a new subclass $M^n(p, \alpha, \beta)$ of meromorphically p-valent functions with positive coefficients in $U^* = \{z : z \in \mathbb{C} \text{ and } 0 < |z| < 1\}$ by using a linear operator $D^n$. The main object of this paper is to investigate the various important properties and characteristics of the class $M^n(p, \alpha, \beta)$. We also derive many results for the Hadamard products of functions belonging to the class $M^n(p, \alpha, \beta)$.

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Key words and phrases: linear operator, Hadamard product (or convolution), meromorphically p-valent functions.

References


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**M. K. Aouf**

Mansoura University
Faculty of Science
Department of Mathematics
Mansoura 35516, Egypt

e-mail: mkaouf127@yahoo.com