SOME PROPERTIES OF CERTAIN FUNCTIONS CONCERNING HYPERGEOMETRIC FUNCTIONS IN SOME CLASSES OF UNIVALENT FUNCTIONS

S. OSTADBASHI and SAEID SHAMS

Abstract. In this paper we define the function $E(a, b, c, d, z)$ concerning hypergeometric function. The main aim of the present paper is to obtain conditions for a, b, c, d such that the functions $zE(a, b, c, d, z)$ and $z(2 - E(a, b, c, d, z))$ belong to some classes of univalent functions. Also several operators related to the above functions are investigated.

MSC 2000. 30C45, 30C50.

Key words. Hypergeometric functions, starlike functions, convex functions, Ruscheweyh derivative.

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Department of Mathematics
Urmia University
Urmia, Iran
E-mail: saedostadbashi@yahoo.com
E-mail: sa40shams@yahoo.com