

CERTAIN SUBCLASSES OF MULTIVALENT PRESTARLIKE FUNCTIONS WITH NEGATIVE COEFFICIENTS

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Abstract. The object of the present paper is to investigate coefficient estimates for functions belonging to the subclasses $R_{\gamma}^p[\alpha, \beta]$ and $C_{\gamma}^p[\alpha, \beta]$ of p -valent γ -prestarlike functions of order α and type β with negative coefficients. We obtain extreme points, distortion theorems, integral operators and radii of starlikeness and convexity for functions belonging to the classes $R_{\gamma}^p[\alpha, \beta]$ and $C_{\gamma}^p[\alpha, \beta]$. We also obtain several results for the modified Hadamard products of functions belonging to the classes $R_{\gamma}^p[\alpha, \beta]$ and $C_{\gamma}^p[\alpha, \beta]$.

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