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Starlikeness and Convexity Conditions for Classes of Functions Defined by Subordination

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Abstract:

We consider the family $\mathcal{P}(1, b)$, $b > 0$, consisting of functions p analytic in the open unit disc U with the normalization $p(0) = 1$ which have the disc formulation $|p - 1| < b$ in U . Applying the subordination properties to certain choices of p using the functions

$$f_n(z) = z + \sum_{k=1+n}^{\infty} a_k z^k, \quad n = 1, 2, \dots,$$

we obtain inclusion relations, sufficient starlikeness and convexity conditions, and coefficient bounds for functions in these classes. In some cases our results improve the corresponding results appeared in print.



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