

New classes of certain analytic functions concerned with subordinations

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ABSTRACT.

Let \mathcal{A} be the class of analytic functions $f(z)$ in the open unit disk \mathbb{U} which satisfy $f(0) = 0$ and $f'(0) = 1$. Applying the extremal function for the subclass $\mathcal{S}^*(\alpha)$ of \mathcal{A} , new classes $\mathcal{P}^*(\alpha)$ and $\mathcal{Q}^*(\alpha)$ are considered using certain subordinations. The object of the present paper is to discuss some interesting properties for $f(z)$ belonging to the classes $\mathcal{P}^*(\alpha)$ and $\mathcal{Q}^*(\alpha)$.

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