Sufficient Conditions for Starlikeness and Convexity in $|z|< 1/2$

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Abstract:

For analytic functions $f(z)$ with $f(0) = f'(0) - 1 = 0$ in the open unit disc $\mathbb{E}$, T. H. MacGregor has considered some conditions for $f(z)$ to be starlike or convex. The object of the present paper is to discuss some interesting problems for $f(z)$ to be starlike or convex for $|z| < \frac{1}{2}$.

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