

A SHARP CRITERION FOR STARLIKENESS

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Abstract. In this paper we have obtained a simple sufficient condition for the starlikeness of analytic functions defined in the unit disc $U = \{z \in C : |z| < 1\}$.

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REFERENCES

- [1] KRZYŻ, J., *A counterexample concerning univalent functions*, Folia Soc. Scient. Lubliniensis, **2** (1962), 57–58.
- [2] MOCANU, P.T., *On starlikeness of Libera transform*, Mathematica(Cluj), **28(51)** (1986), 153–155.
- [3] MOCANU, P.T., *On starlikeness of certain integral operators*, Mathematica(Cluj), **36(59)** (1994), 179–184.
- [4] SINGH, R. and SINGH, S., *Starlikeness and convexity of certain integrals*, Ann. Univ. Mariae Curie-Slodowska, Sect. A, **16** (1981), 145–148.
- [5] RUSCHEWEYH, S., *Convolution in Geometric Function Theory*, Les Presses de l'Université de Montréal, Montréal, 1982.

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