

CONDITIONS FOR STARLIKENESS AND FOR CONVEXITY

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Abstract. In this paper we define new classes $P_{n,m}[\alpha, M]$ and we give a sufficient condition for starlikeness and also a sufficient condition for convexity of analytic functions in the unit disc.

MSC 2000. 30C45.

Key words. Starlike, convex, subordination, Sălăgean differential operator.

REFERENCES

- [1] JINLIN, L., *On subordination for certain subclass of analytic functions*, Internat. J. Math. Math. Sci., **20** (1997), 225–228.
- [2] MILLER, S.S. and MOCANU, P.T., *Differential subordinations and univalent functions*, Michigan Math. J., **28** (1981), 157–171.
- [3] SĂLĂGEAN, G.S., *Subclasses of univalent functions*, Lecture Notes in Math, **1013** (1983), Springer Verlag, pp. 362–372.

Received May 12, 2004

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