MATHEMATICA, Tome 45 (68), N $^{\circ}$ 1, 2003, pp. 43–47

ON THE QUOTIENT OF CONVEX AND STARLIKE FACTOR DEFINED BY SILVERMAN

MAMORU NUNOKAWA, SHIGEYOSHI OWA, HITOSHI SAITOH and O.P. AHUJA

Abstract. Silverman [3] investigated and obtained some results for the properties of functions defined in terms of the quotient of the analytic representations of convex and starlike functions. Defining Silverman's function, we will add some properties for this functions.

MSC 2000. 30C45.

Key words. Univalent, starlike, convex, strongly starlike of order β , strongly convex of order β .

REFERENCES

- NUNOKAWA, M., On properties of Non-Carathéodory functions, Proc. Japan Acad. 68 (1992), 152–153.
- [2] NUNOKAWA, M., On the order of strongly starlikeness of strongly convex functions, Proc. Japan Acad. 69 (1993), 234–237.
- [3] SILVERMAN, H., Convex and starlike criteria, Internat. J. Math. Math. Sci. 22 (1999), 75–79.

Received April 17, 2001

Mamoru Nunokawa Department of Mathematics University of Gunma Aramaki, Maebashi, Gunma 371-8510, Japan

Shigeyoshi Owa Department of Mathematics Kinki University Higashi-Osaka, Osaka, 577-8502, Japan

Hitoshi Saitoh Department of Mathematics Gunma College of Technology Toriba, Maebashi, Gunma 371-8530, Japan

> O.P.Ahuja Kent State University 14111 Clarindon-Troy Road Burton, OH 44021, U.S.A.