Quasi-Hadamard product of some uniformly analytic and p-valent functions with negative coefficients

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ABSTRACT.

In this paper we study the quasi-Hadamard product between some p-valent and uniformly analytic functions with negative coefficients defined in connection with uniformly starlikeness and uniformly convexity.

REFERENCES

- [1] Bharati, R., Parvathan, R. and Swaminathan, A., On subclasses of uniformly convex functions and coresponding class of starlike functions, Tamkang J. Math., 28 (1997), 17–32
- [2] Chen, M. P., Irmak, H. and Srivastava, H. M., Some multivalent functions with negative coefficients defined by using differential operator, PanAmer. Math. J., 6 (1996), No. 2, 55–64
- [3] El-Ashwah, R. M., Aouf, M. K., and Breaz, N., On quasi-Hadamard product of p-valent functions with negative coefficients defined by using a differential operator, Acta Univ. Apulensis Math. Inform., 29 (2011), 61–70
- [4] Frasin, B. A., *Quasi-Hadamard product of certain classes of uniformly analytic functions*, General Mathematics, **16** (2007), No. 2, 29–35
- [5] Kanas, S. and Wisniowska, A., Conic regions and k-uniform convexity, J. Comput. Appl. Math., 105 (1999), 327–336
- [6] Kanas, S. and Wisniowska, A., Conic regions and k-uniform starlike, Rev. Roumaine Math. Pures Appl., 45 (2000), No. 4, 647–657
- [7] Owa, S., On certain classes of p-valent functions with negative coefficients, Simon Stevin, 59 (1985), 385–402
- [8] Sălăgean, G. S., Hossen, H. M. and Aouf, M. K., On certain classes of p-valent functions with negative coefficients. II., Studia Univ. Babes-Bolyai, 69 (2004), No. 1, 77–85
- [9] Sekine, T., On quasi-Hadamard products of p-valent functions with negative coefficients in *Univalent Functions, Fractional Calculus, and Their Applications*, (H. M. Srivastava and S. Owa Eds.), Holsted Press (Ellis Horwood Limited, Chichester), John Wiley and Sons, New York, Chichester, Brisbane and Toronto, 1989, pp. 317–328

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