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Hyperbolic convexity and the analytic fixed point function

We will discuss properties of the *analytic fixed point function* introduced recently by D. Mejía and Ch. Pommerenke. In particular, we solve one of the problems raised by D. Mejía and Ch. Pommerenke by showing that the analytic fixed point function is hyperbolically convex in the unit disc. We also prove some extremal properties of such functions related to mappings from the unit disk onto symmetric Riemann surfaces.