

HARMONIC PARABOLIC STARLIKE FUNCTIONS OF COMPLEX ORDER

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Abstract

Several classes of complex-valued harmonic univalent functions have been introduced and investigated following the basic work of Clunie and Sheil-Small [1]. A family $HS_{\alpha}(\beta, \gamma)$ of harmonic starlike functions of complex order in the unit disc has been recently considered in [6]. Here we introduce a subclass of $HS_{\alpha}(\beta, \gamma)$ consisting of harmonic parabolic starlike functions of complex order and obtain coefficient conditions, extreme points and growth result.

Key Words: Harmonic functions of complex order, Harmonic starlike functions,
Parabolic starlike functions.