Properties for a subclass of starlike functions

Abstract

Let $S$ be the class of functions which are analytic and univalent in the open unit disc $D = \{z: |z| < 1\}$ given by $f(z) = z + \sum_{n=2}^{\infty} a_n z^n$ and $a_n$ a complex number. Let $T$ denote the class consisting of functions $f$ of the form $f(z) = z - \sum_{n=2}^{\infty} a_n z^n$ where $a_n$ is a non negative real number. In this paper, we develop new subclass of $S$ by adopting the original idea of Ramesha et al. [5] and Sudharsan et al. [7]. We give coefficient estimates, growth and extreme points for $f$ belonging to this class.