Coefficient inequality for certain subclasses of univalent functions

ABSTRACT

Let $f(z) = z + \sum_{n=2}^{\infty} a_n z^n$ an analytic and univalent function in the unit disk D = $\{z: |z|$ z < 1$\}$. The purpose of the present paper is to introduce the functional $\left| a_4 - \mu a^{\frac{2}{3}} \right|$ when μ is real. We give sharp upper bounds for $\left| a_4 - \mu a^{\frac{2}{3}} \right|$ for certain subclasses of univalent functions. The results obtained are sharp.