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A coefficient inequality for a sub-class of close-to-convex functions. (English) Zbl 0723.30015
Serdica 15, No. 4, 327-335 (1989).

Denote by $C(A,B)$ the class of functions

$$f(z) = z + \sum_{k=1}^{\infty} a_k z^k, \quad |z| < 1,$$

such that

$$\frac{zf'(z)}{g(z)} = \frac{1 + A\omega(z)}{1 + B\omega(z)} \text{ where } -1 \leq B < A \leq 1,$$

g is a starlike function, $\omega(z) = \sum_{k=1}^{\infty} c_k z^k$ and $|\omega(z)| < 1$.

In this paper, the authors find the upper bound of the functional $|a_3 - \mu a_2^2|$ in the class $C(A,B)$ where μ is a real number.

Reviewer: [St. Walczak \(Łódź\)](#)

MSC:

- 30C50** Coefficient problems for univalent and multivalent functions of one complex variable
- 30C45** Special classes of univalent and multivalent functions of one complex variable (starlike, convex, bounded rotation, etc.)
- 30C75** Extremal problems for conformal and quasiconformal mappings, other methods