

**Kershaw, Donald; Laforgia, Andrea**

**Monotonicity results for the gamma function.** (English) Zbl 0805.33001

Atti Accad. Sci. Torino, Cl. Sci. Fis. Mat. Nat. 119, No. 3-4, 127-133 (1985).

This paper proves that  $[\Gamma(1 + 1/x)]^x$  decreases with  $x$ , where  $0 < x < \infty$ , and  $x[\Gamma(1 + 1/x)]^x$  increases with  $x$ , where  $0 < x < \infty$ .

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**MSC:**

33B15 Gamma, beta and polygamma functions

Cited in 9 Documents

**Keywords:**

Gamma functions