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# The gamma function inequalities of Gurland and Gautschi

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## Abstract

The two majorants in question are Gurland's Inequality [1]

$$\frac{\Gamma^2(\delta + \alpha)}{\Gamma(\delta)\Gamma(\delta + 2\alpha)} \leq \frac{\delta}{\delta + \alpha^2} \quad \alpha + \delta > 0, \alpha \neq 0, 1, \delta > 0, \quad (1)$$

and Gautschi's Inequality [2]

$$\frac{\Gamma(n + s)}{\Gamma(n + 1)}$$

inequality  
develop



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