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Original Articles

The gamma function inequalities of Gurland and Gautschi

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Abstract

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

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

$$\alpha + \delta > 0$$
, $\alpha \neq 0$, 1 , $\delta > 0$,

$$\frac{\Gamma(n+s)}{\Gamma(n+1)} \geqslant (n+1)^{s-1} \qquad n=1, 2, \ldots, 0 \leqslant s \leqslant 1.$$

$$n = 1, 2, ..., 0 \leq s \leq 1.$$

inequalities it is possible to improve iteratively upon Gautschi's result (2) and also to develop upper bounds for $\Gamma(n+2)/\Gamma(n+2^2)$, $n=1,2,\ldots,0<2<1$.

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