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**Monotonicity and Convexity for the Gamma Function** 

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**Abstract**: Let a and b be given real numbers with  $(-a,\infty)$  with  $\theta_{a,b}(\infty)=\frac{a+b-1}{2}$ 

and  $\, heta_{a,b}(-a) = a, \, ext{where} \, \, \Gamma \, \, ext{denotes the Euler's gamma function.} \,$ 

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