MM20B059

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1 The Gamma Function Equation

$$\Gamma(x) = \int_0^\infty e^{-t} t^{x-1} dt$$

1.1 Variables

$\Gamma(x)$=The value of Gamma Function
x=value at which Gamma Function is to be evaluated

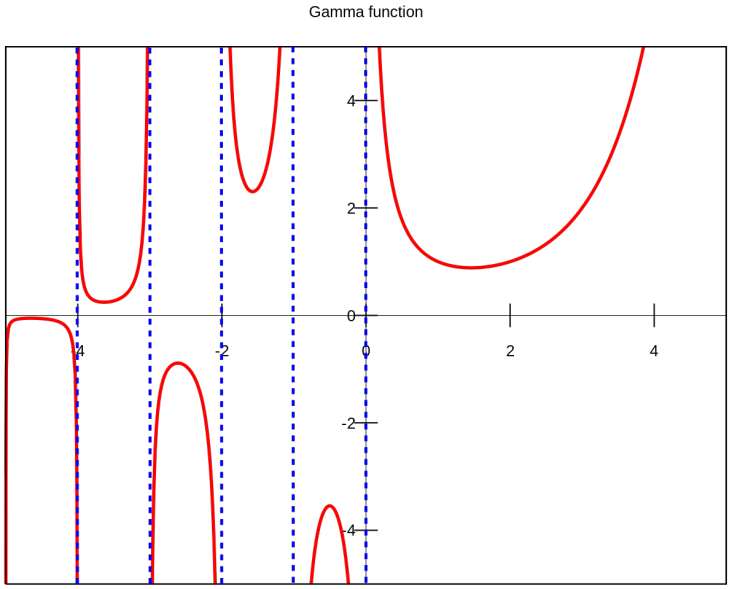

Figure 1: Gamma Function Plot

2 Description

In mathematics, the gamma function (represented by Γ) is one commonly used extension of the factorial function to continuous and complex numbers. The gamma function is defined for all complex numbers except the non-positive integers as an improper integral as given in the equation above. For positive integers, $\Gamma(x) = (x-1)!$ **?**