

L^AT_EX and Gnuplot: the Gamma function

Esben Hygum Larsen

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The gamma function is defined as:

$$\Gamma(n) = (n-1)! . \tag{1}$$

where n is a positive integer. It can also be defined for a complex number with a positive real part:

$$\Gamma(z) = \int_0^\infty x^{z-1} e^{-x} dx, \quad \Re(z) > 0 \tag{2}$$

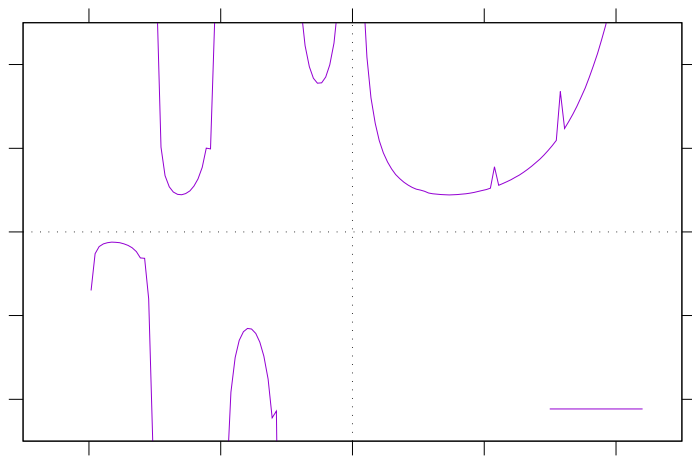


Figure 1: Gamma function