Γ-function

Wikipedia

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Abstract

In mathematics, the gamma function (represented by Γ, the capital letter gamma from the Greek alphabet) is one commonly used extension of the factorial function to complex numbers.

1 Introduction

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

Here is a reference to an equation (1).