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T. Bermúdez

Dep. de Análisis Matemático, Universidad de La Laguna, 38271 La Laguna - Tenerife, Spain
tbermude@ull.es

A. Martinón

Dep. de Análisis Matemático, Universidad de La Laguna, 38271 La Laguna - Tenerife, Spain
anmarce@ull.es

K. Sadarangani

Dep. de Matemáticas, Universidad de Las Palmas de Gran Canaria, Campus de Tafira Baja,
35017 Las Palmas de Gran Canaria, Spain
ksadarang@dma.ulpgc.es

On Quasi-Gamma Functions

We define the quasi-gamma functions as the functions $f :]0, \infty[\rightarrow]0, \infty[$ such that $f(1) = 1$, $f(x + 1) = xf(x)$ for every $x > 0$, and f is quasi-convex. The main example of quasi-gamma function is the gamma function defined by Euler. We study some properties of the quasi-gamma functions and of the class Q of these functions.

Keywords: Gamma function, quasi-gamma function, quasi-convex function.

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