



Volume 9, Issue 1, Article 13

	A Functional Inequality for the Survival Function of the Gamma Distribution
Authors:	Árpád Baricz,
Keywords:	Error function; Incomplete gamma function; Density function; Survival function; Complete monotonicity; Functional inequality; New-is- better-than-used property; Log-concavity.
Date Received:	12/01/08
Date Accepted:	18/02/08
Subject Codes:	33B20, 26D05.

Andrea Laforgia,

Abstract:

Editors:

In this note we give a completely different proof to a functional inequality established by Ismail and Laforgia for the survival function of the gamma distribution and we show that the inequality in the question is in fact the socalled new-is-better-than-used property, which arises in economic theory. Moreover, we extend this result to arbitrary reliability functions and we present a new simple proof for the Esseen-Mitrinovic inequality.



**Download Screen PDF** 

- **Download Print PDF**
- Send this article to a friend
- ₽ Print this page