



Volume 5, Issue 3, Article 55

A Two-Sided Estimate Of $e^x - (1 + \frac{x}{n})^n$

Authors: [Constantin P. Niculescu](#), [Andrei Vernescu](#),

Keywords: Inequalities, Two-sided estimates, Exponential function, Means.

Date Received: 23/03/04

Date Accepted: 01/04/04

Subject Codes: Primary 26D15; Secondary 26A06, 26A48

Editors: [Lars-Erik Persson](#),

Abstract: In this paper we refine an old inequality of G. N. Watson related to the formula
$$e^x = \lim_{n \rightarrow \infty} \left(1 + \frac{x}{n}\right)^n.$$



[Download Screen PDF](#)



[Download Print PDF](#)



[Send this article to a friend](#)



[Print this page](#)

[search](#)

[\[advanced search\]](#)

[copyright 2003](#)

[terms and conditions](#)

[login](#)