



Volume 4, Issue 4, Article 73

A Variant of Jensen's Inequality

Authors: [A.McD. Mercer,](#)

Keywords: Jensen's inequality, Convex functions.

Date Received: 14/08/03

Date Accepted: 27/08/03

Subject Codes: 26D15

Editors: [Peter S. Bullen,](#)

Abstract: If f is a convex function the following variant of the classical Jensen's Inequality is proved

$$f\left(x_1 + x_n - \sum w_k k_k\right) \leq f(x_1) + f(x_n) - \sum w_k f(x_k).$$



[Download Screen PDF](#)



[Download Print PDF](#)



[Send this article to a friend](#)



[Print this page](#)

[search](#)

[\[advanced search\]](#)

[copyright 2003](#)

[terms and conditions](#)

[login](#)