



Volume 3, Issue 2, Article 29

## Note on the Perturbed Trapezoid Inequality

**Authors:** [Xiao-liang Cheng](#), [Jie Sun](#),  
**Keywords:** Grüss inequality, Perturbed trapezoid inequality,  
Sharp bounds.  
**Date Received:** 21/05/01  
**Date Accepted:** 01/02/02  
**Subject Codes:** 26D15, 26D10  
**Editors:** [Neil S. Barnett](#),

**Abstract:** In this paper we utilize a variant of the Grüss inequality to obtain some new perturbed trapezoid inequalities. We improve the error bound of the trapezoid rule in numerical integration in some recent known results.



[Download Screen PDF](#)



[Download Print PDF](#)



[Send this article to a friend](#)



[Print this page](#)

[search](#)

[\[advanced search\]](#)

copyright 2003

[terms and conditions](#)

[login](#)