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## Sharp Error Bounds for Some Quadrature Formulae and Applications

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**Abstract:** In the article "N. Ujevic, A generalization of the pre-Grüss inequality and applications to some quadrature formulae, *J. Inequal. Pure Appl. Math.*, **3**(2), Art. 13, 2002" error bounds for some quadrature formulae are established. Here we prove that all inequalities (error bounds) obtained in this article are sharp. We also establish a new sharp averaged midpoint-trapezoid inequality and give applications in numerical integration.



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