

**Meeting:** 1003, Atlanta, Georgia, MAA CP X1, MAA General Contributed Paper Session, I

1003-X1-1245      **Peter R. Mercer\*** ([mercpr@math.buffalostate.edu](mailto:mercpr@math.buffalostate.edu)), Mathematics Department, Buffalo State College, 1300 Elmwood Avenue, Buffalo, NY 14222. *Error Bounds for Elementary Quadrature Formulae.*

We present some alternate types of error bounds for the Midpoint, Trapezoid, Simpson, and Corrected Trapezoid Rules. These are more elementary than standard error bounds, which require polynomial interpolation and/or Taylor's theorem. And, they require less regularity of the function being used. (Received October 04, 2004)