

EULER–MACLAURIN FORMULAE

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Abstract. A number of inequalities, for functions whose derivatives are either functions of bounded variation or Lipschitzian functions or functions in L_p -spaces, is proved by applying the Euler-Maclaurin formulae. The results are applied to obtain some error estimates for the Maclaurin quadrature rules.

Mathematics subject classification (2000): 26D15, 26D20, 26D99.

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