

Rafiq M. ALIYEV, Sara G. GASIMOVA

## ON QUADRATURE FORMULAE

### Abstract

*In the present paper for a class of solutions of a boundary value problem it is proved the existence of an optimal quadrature formula by the order among quadrature formula containing also the derivatives of approximate solutions of the given boundary value problem. The optimal quadrature formula with weight function  $\gamma(x) = x$  is also found.*