



Research Article



Undecic Spline Approximation of Seventh order Linear Boundary value Problems

Parcha Kalyani

Corresponding Author:

kk.parcha@yahoo.com

DOI:

<http://dx.doi.org/>

10.17812/IJRA.5.20(2)2018

Manuscript:

Received: 12th Oct, 2018

Accepted: 7th Nov, 2018

Published: 21st Dec, 2018

Publisher:

Global Science Publishing Group, USA

<http://www.globalsciencepg.org/>

ABSTRACT

Undecic spline approximations are developed following cubic spline Bickley's procedure and applied on linear boundary value problem of order seven. Numerical solutions are computed at different step lengths and absolute errors are calculated. Approximate and exact solutions are compared. Results are tabulated and pictorially illustrated

Keywords: Spline functions; Seventh order boundary value problems; Eleventh degree spline.

Department of Applied Mathematics, Adama Science and Technology University, Ethiopia

IJRA - Year of 2018 Transactions:

Month: October - December

Volume - 5, Issue - 20, Page No's: 1005-1010

Subject Stream: Mathematics

Paper Communication: Author Direct

Paper Reference Id: IJRA-2018: 5(20)1005-1010