

Cubic trigonometric b-spline solution for solving two-point boundary value problems

ABSTRACT

The aim of this paper is to investigate the performance of cubic trigonometric B-spline interpolation method (CTBIM) for solving two-point boundary value problems (BVPs). The CTBIM with different number of sizes were used to solve the linear system. There are three numerical examples considered to point out the performance of the CTBIM compared to cubic B-spline interpolation method (CBIM). Based on the results, the CTBIM is proved as the better in term of accuracy as compared with CBIM.