

Note on method of obtaining order and error constants of Linear Multi-step Method (LMM) for solving third order ODEs

Y.A. Yahaya^a and A.M. Badmus^b

^aDepartment of Mathematics and Computer Science, Federal University of Technology Minna, Nigeria

^bDepartment of Mathematics and Computer Science, Nigerian Defence Academy Kaduna, Nigeria

yusuphyahaya@yahoo.com, ademolabadmus@gmail.com

Key words: LMM, Order, Error constants, Third Order odes, Grid points.

The method of obtaining order and error constant presented in Lambert (1973) for first and second order linear multi-step methods were extended to derived a similar method for obtaining the order and error constant of the third order linear multi-step method. Specifically the method is meant for the schemes on grid points only.