1001-65-149 **Maitree Podisuk*** (`mpodisuk@yahoo.com`), Faculty of Science, KMITL, Ladkrabang, 10520 Bangkok, Thailand. *Open Formulas of Runge-Kutta Method.*

In this paper, we will introduce some new open formulas of Runge-Kutta method for finding the numerical solutions of the initial value problem of the ordinary differential equations. The error bounded of some formulas are in the type of $O(h^{(n+2)})$ instead of $O(h^{(n+1)})$ for the n-point formula. At the end, we will use these new formulas to find the numerical solution of some selected ordinary differential equations. (Received August 22, 2004)