Runge-Kutta 4th Order Formula

+2 ;

+2

+2 ;

*where*

; ;

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; ;

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;

*for k = 0,1,2,3,…..,M-1 ;*

*where == ;*

*h is step size; interval [a,b], subinterval M ;*

*Initial value y(t0) = ; y ’(t0) = ;*

*Relative Error(%)=* x 100% ; | | is *absolute value*