

Worksheet for the Third – Order Taylor Method

Initial Value Problem:

$$\frac{dy}{dx} =$$

$$y(\quad) =$$

$$y'' =$$

$$y^{(3)} =$$

step size: $h =$

$$\frac{1}{2}h^2 =$$

$$\frac{1}{6}h^3 =$$

[illegible]

$$\Delta y = hy' + \frac{1}{2}h^2y'' + \frac{1}{6}h^3y^{(3)}$$