

Problem:

Given that $y(x)$ is the solution to

$$\frac{dy}{dx} = y^3 + 2, \quad y(0) = 3,$$

find the value of $y(0.2)$ from a second order Taylor polynomial around $x=0$.

Solution

The second order Taylor polynomial is

$$y(x+h) = y(x) + y'(x)h + \frac{y''(x)}{2!}h^2$$

$$x = 0, \quad h = 0.2 - 0 = 0.2$$

$$y(0+0.2) = y(0) + y'(0) \times 0.2 + \frac{y''(0)}{2!} 0.2^2$$

$$y(0.2) = y(0) + y'(0) \times 0.2 + y''(0) \times 0.02$$

$$y(0) = 3$$

$$y'(x) = y^3 + 2$$

$$\begin{aligned} y'(0) &= 3^3 + 2 \\ &= 29 \end{aligned}$$

$$\begin{aligned} y''(x) &= 3y^2 \frac{dy}{dx} \\ &= 3y^2 (y^3 + 2) \end{aligned}$$

$$\begin{aligned} y''(0) &= 3(3)^2 (3^3 + 2) \\ &= 783 \end{aligned}$$

$$\begin{aligned} y(0.2) &= 3 + 29 \times 0.2 + 783 \times 0.02 \\ &= 24.46 \end{aligned}$$

Polynomial Approximation Of Differential Equations

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