

6.1b Euler's method

$$y_{n+1} = y_n + \frac{dy}{dx} * \Delta x$$

Dec 4-10:47 PM

$$\frac{dy}{dx} = x + y \quad f(2) = 0$$

Use Euler's method with steps of 0.2 to approximate $f(3)$.

Dec 4-10:50 PM

$$\frac{dy}{dx} = 2xy, \quad y = 3 \text{ when } x = 2$$

Use Euler's method with five equal steps to approximate y when $x = 1.5$

Dec 4-10:50 PM