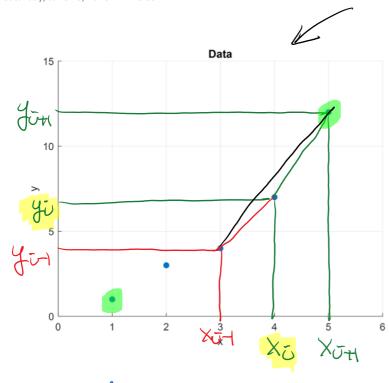
## Numerical Differentiation

Saturday, June 20, 2020 10:09 PM



$$\frac{dy}{dx} = \frac{y_{0t_1} - y_0}{x_{0t_1} - x_0}$$

Backwards Difference  $\frac{dy}{dx} = \frac{y \cdot \overline{y} - y \cdot \overline{y}}{x \cdot \overline{y}}$ 

$$\frac{dy}{dx} = \frac{y\overline{v} - y\overline{v} - y}{x\overline{v} - x\overline{v} - x}$$

$$\frac{dy}{dx} = \frac{y_{0+1} - y_{0-1}}{x_{0+1} - x_{0-1}}$$