

EQUATIONS OF LINES

Slope

$$\text{slope} = m = \frac{\text{rise} \uparrow}{\text{run} \rightarrow} = \frac{y_2 - y_1}{x_2 - x_1}$$

Slope-Intercept

$$\mathbf{y = mx + b}$$

Point-Slope

$$\mathbf{(y - y_1) = m(x - x_1)}$$

General

$$\mathbf{Ax + By = C}$$