

Linear Equations

Slope

$\frac{\text{rise}}{\text{run}}$

$\frac{\text{change in } y}{\text{change in } x}$

$\frac{y_2 - y_1}{x_2 - x_1}$

Slope-Intercept Form

$y = mx + b$

$m = \text{slope}$

$b = \text{y-intercept}$

Standard Form

$Ax + By = C$

Point-Slope Form

$y - y_1 = m(x - x_1)$

$y_1 = y \text{ coordinate from ordered pair}$

$m = \text{slope}$

$x_1 = x \text{-coordinate from ordered pair}$

