

# Finding the Equation of a Line

The equation of a line can be determined using the following formulae:

1. Slope-Intercept Form:  $y = mx + b$

2. Point-Slope Form:  $y - y_1 = m(x - x_1)$

3. Two-Point Form:  $y - y_1 = \frac{y_2 - y_1}{x_2 - x_1}(x - x_1)$

4. Intercept Form:  $\frac{x}{a} + \frac{y}{b} = 1$