Graphing Linear Equations

Get the equation in one of the following forms:

**Slope-intercept form:**
\[ y = mx + b \]
Example: \( y = 2x - 1 \)

1. Identify the slope (m) and the y-intercept (b).
   Example: \( m = 2, b = -1 \)

2. Graph the y-intercept on the y-axis.

3. Use the slope to locate a second point.

4. Draw a line through the two points.

**Standard Form:**
\[ Ax + By = C \]
Example: \( 3x - 2y = 6 \)

1. Find the x-intercept.
   Let \( y = 0 \) and solve the equation for \( x \).
   Example: \( 3x - 2(0) = 6 \)

2. Find the y-intercept.
   Let \( x = 0 \) and solve the equation for \( y \).
   Example: \( 3(0) - 2y = 6 \)
   \(-2y = 6\)

3. Graph the x-intercept on the x-axis and the y-intercept on the y-axis.

4. Draw a line through the two points.