

Day 6 - Converting from Standard Form and Graphing - Practice

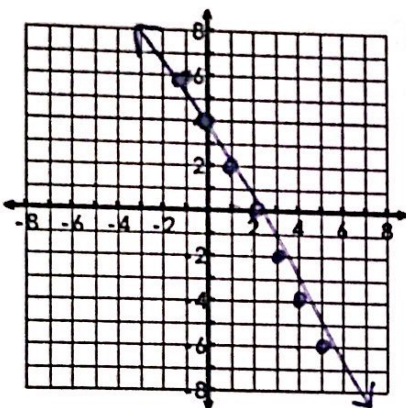
Directions: Determine the slope and y-intercept of each equation. Then graph.

$$\begin{array}{r} 1. \quad 2x + y = 4 \\ -2x \quad -2x \\ \hline \end{array}$$

$$y = -2x + 4$$

Equation: $y = -2x + 4$

Slope: -2 Y-int: $(0, 4)$

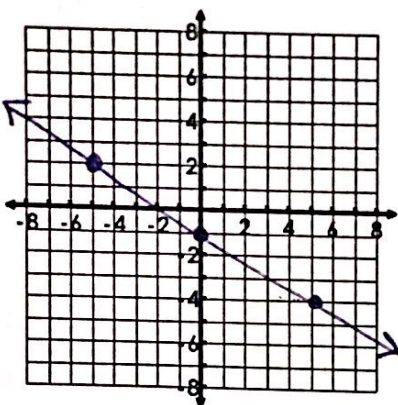


$$\begin{array}{r} 2. \quad 3x + 5y = -5 \\ -3x \quad -3x \\ \hline \end{array}$$

$$\frac{5y}{5} = \frac{-3x - 5}{5}$$

Equation: $y = -3/5x - 1$

Slope: $-3/5$ Y-int: $(0, -1)$

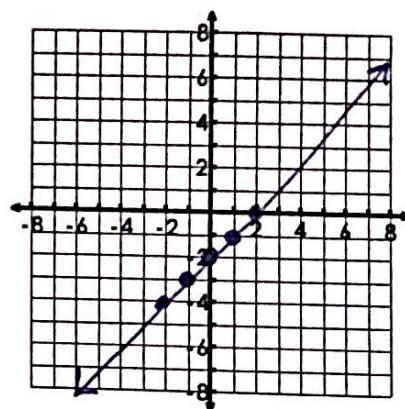


$$\begin{array}{r} 3. \quad 2x - 2y = 4 \\ -2x \quad -2x \\ \hline \end{array}$$

$$\frac{-2y}{-2} = \frac{-2x + 4}{-2}$$

Equation: $y = x - 2$

Slope: 1 Y-int: $(0, -2)$

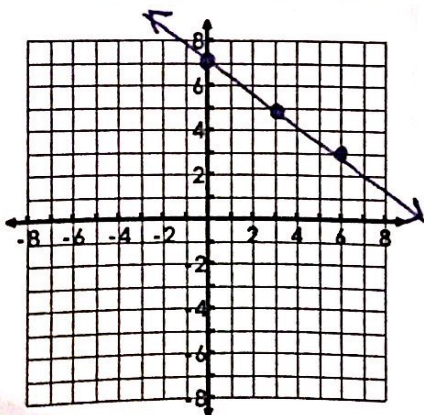


$$\begin{array}{r} 4. \quad 2x + 3y = 21 \\ -2x \quad -2x \\ \hline \end{array}$$

$$\frac{3y}{3} = \frac{-2x + 21}{3}$$

Equation: $y = -2/3x + 7$

Slope: $-2/3$ Y-int: $(0, 7)$

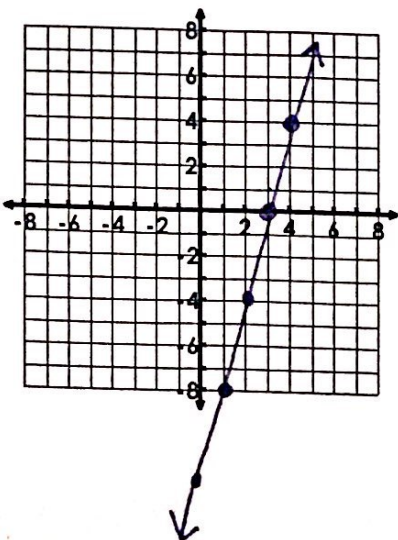


$$\begin{array}{r} 5. \quad 8x - 2y = 24 \\ -8x \quad -8x \\ \hline \end{array}$$

$$\frac{-2y}{-2} = \frac{-8x + 24}{-2}$$

Equation: $y = 4x - 12$

Slope: 4 Y-int: $(0, -12)$



$$\begin{array}{r} 6. \quad x - 3y = 6 \\ -x \quad -x \\ \hline \end{array}$$

$$\frac{-3y}{-3} = \frac{-x + 6}{-3}$$

Equation: $y = 1/3x - 2$

Slope: $1/3$ Y-int: $(0, -2)$

