

ALL PROBLEMS CAN BE COMPLETED ON THIS WORKSHEET

**WS 29.2 - Graphing Equations by the Slope-Intercept Method 2**

Graph each equation by finding the slope and y-intercept. Remember to solve for y!

1.  $\frac{3y}{3} = \frac{6x}{3}$

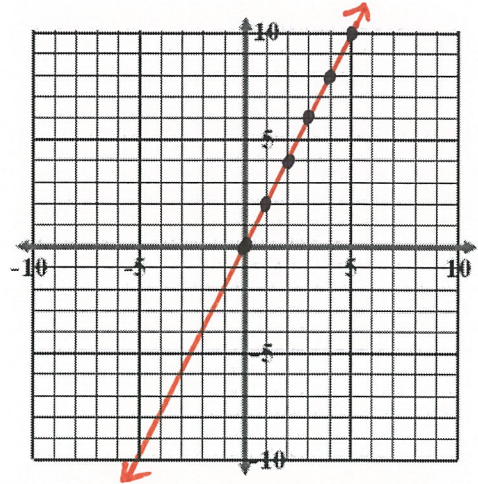
$$y = 2x$$

OR

$$y = 2x + 0$$

$$M = \frac{2}{1} \leftarrow \begin{array}{l} \text{up } 2 \\ \text{right } 1 \end{array}$$

$$b = 0 \leftarrow \begin{array}{l} \text{start} \\ \text{here on} \\ \text{y-axis} \end{array}$$



2.  $\frac{5x}{-5x} + \frac{2y}{-5x} + \frac{10}{-5x} = 0$

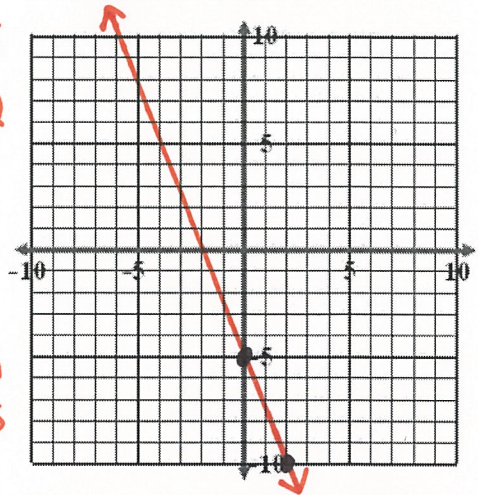
$$2y + 10 = -5x$$

$$\frac{2y}{2} = \frac{-5x - 10}{2}$$

$$y = -\frac{5}{2}x - 5$$

$$M = \frac{-5}{2} \leftarrow \begin{array}{l} \text{down } 5 \\ \text{right } 2 \end{array}$$

$$b = -5 \leftarrow \begin{array}{l} \text{start} \\ \text{here on} \\ \text{y-axis} \end{array}$$



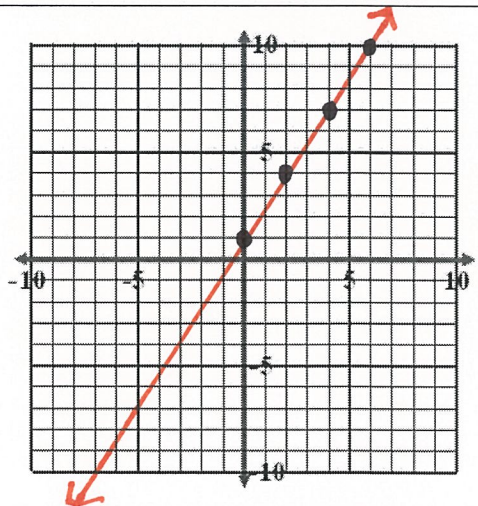
3.  $\frac{2y}{+3x} - \frac{3x}{+3x} = \frac{2}{+3x}$

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

$$y = \frac{3}{2}x + 1$$

$$M = \frac{3}{2} \leftarrow \begin{array}{l} \text{up } 3 \\ \text{right } 2 \end{array}$$

$$b = 1 \leftarrow \begin{array}{l} \text{start} \\ \text{here on} \\ \text{y-axis} \end{array}$$



$$4. \frac{y}{2} - \frac{x}{3} = \frac{1}{4}$$

$$6y - 4x = 3$$

*+4x    +4x*

$$\frac{6y}{6} = \frac{4x}{6} + \frac{3}{6}$$

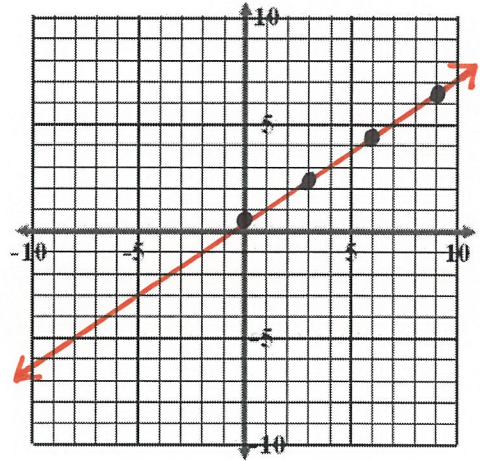
$$y = \frac{2}{3}x + \frac{1}{2}$$

$$M = \frac{2}{3}$$

*← up 2*  
*← right 3*

$$b = \frac{1}{2}$$

*← start here on y-axis*



$$5. x + 4 = y - 1$$

*+1    +1*

$$x + 5 = y$$

OR

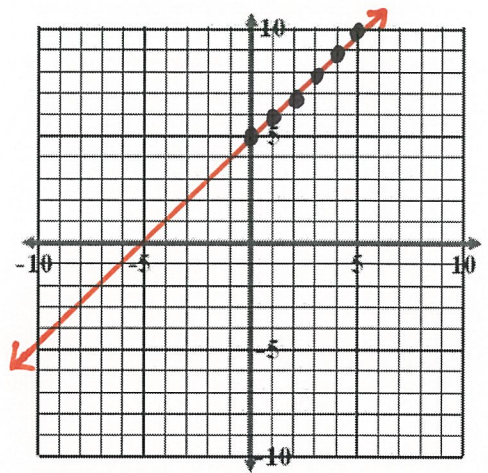
$$y = x + 5$$

$$M = \frac{1}{1}$$

*← up 1*  
*← right 1*

$$b = 5$$

*← start here on y-axis*



$$6. 3x + 5y = 15$$

*-3x    -3x*

$$\frac{5y}{5} = \frac{-3x}{5} + \frac{15}{5}$$

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

$$M = \frac{-3}{5}$$

*← down 3*  
*← right 5*

$$b = 3$$

*← start here on y-axis*

