

WS 7B.2 - More Graphing with Slope and y-InterceptPut each equation into slope-intercept form, then graph.

1. $2y - 10x = -12$

$+10x \quad +10x$

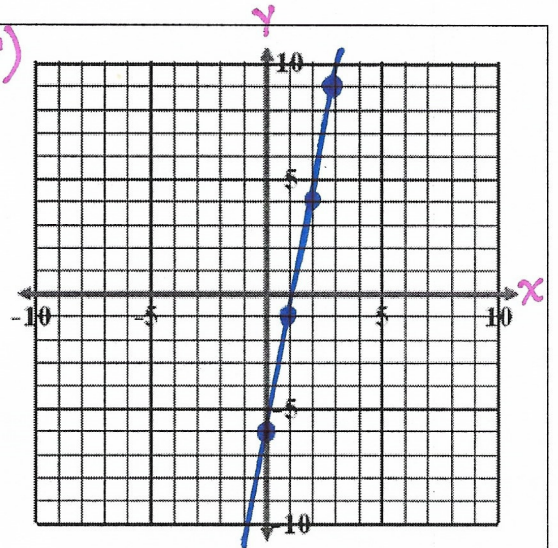
$$\frac{2y}{2} = \frac{10x}{2} - \frac{12}{2}$$

$$y = 5x - 6$$

$$\begin{array}{c} \uparrow \quad \uparrow \\ m \quad b \end{array}$$

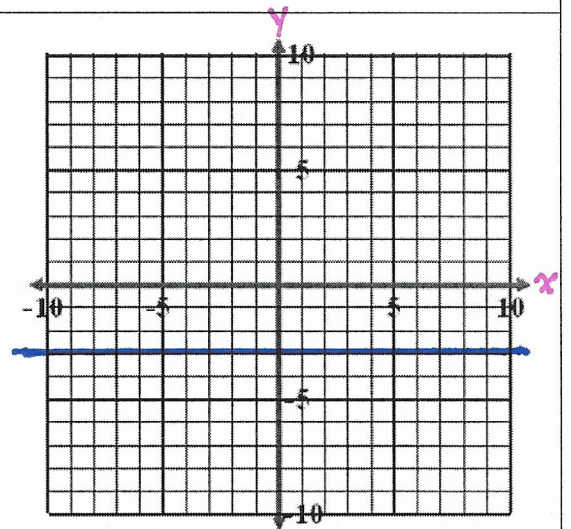
$$m = \frac{5}{1} \leftarrow \begin{array}{l} \text{rise (up 5)} \\ \text{run (right 1)} \end{array}$$

$$b = -6 \leftarrow \begin{array}{l} \text{y-intercept} \\ \text{(start here on} \\ \text{y-axis)} \end{array}$$

 $y = mx + b$ (solve equation for y)

2. $y = -3$

$y = \text{constant}$ is always
a horizontal line
Memorize!



3. $x = -3$

$x = \text{constant}$ is always
a vertical line
Memorize!

