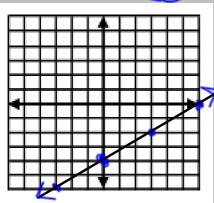
Steps to graph a line given a point and the slope.

- 1. Plot the y-intercept.
- 2. Use the slope to find the next point.
- 3. Plot at least 3 more points and draw the line. (arrows) (If you cannot go forward anymore, do the opposite steps to go back wards.)

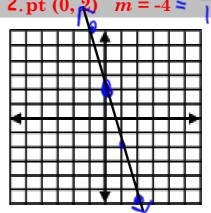
.....

Graph each line given the y-intercept and the slope.

1. pt (0, -4)
$$m = \frac{2}{3}$$

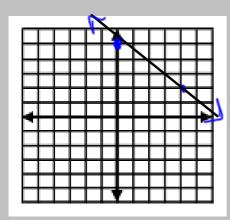


2. pt
$$(0, 2)$$
 $m = -4 = 4$



Graph each line given the y-intercept and the slope.

3. pt
$$(0, 5)$$
 $m = -\frac{3}{4}$



Slope Intercept Form -

*Slope (m) is always the coefficient of x.

1)
$$y = 2x + 4$$

2)
$$y = 3x$$

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

$$m = \frac{2z^2}{1}$$

$$m = \frac{3}{1} = \frac{3}{1}$$

$$b = \frac{4}{(0.4)}$$

$$b = \frac{0}{0}$$

<u>Use slope-intercept form to GRAPH</u>.

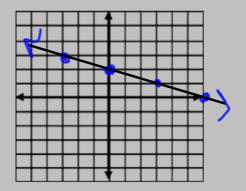
- 1. Solve for y. (if needed)
- 2. Identify the y-intercept () and slope () from the equation.
- 3. Plot the y-intercept ().
- 5. Draw the line and check the slope with the direction of the line.

Graph each line given an equation.

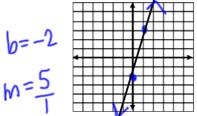
$$y = \frac{-1}{3}x + 2$$

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

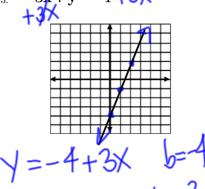
$$\ln = -\frac{1}{3} \quad b = (0.2)$$



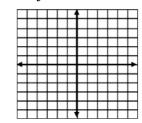
$$y = -2 + 5x$$
 $y = 5x - 2$



3.
$$-3x + y = -4 + 3x$$



$$_{4.} \quad x-2y=4$$



$$\frac{-12}{-2}$$
 $\frac{4-x}{-2}$

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

$$\gamma = \frac{1}{2}\chi - 2$$