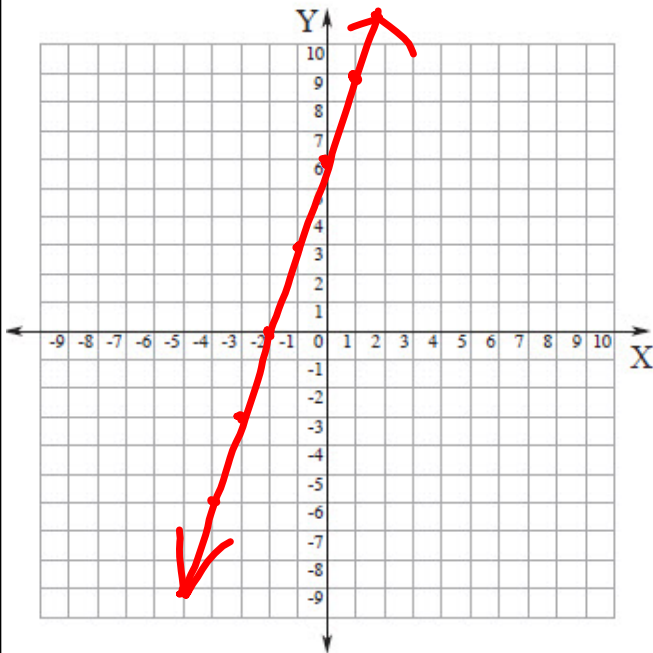
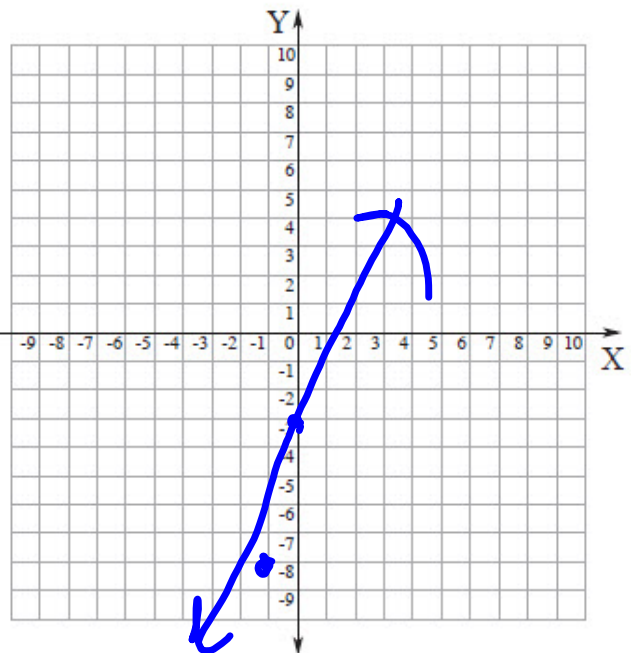


Warm up

1) $y = 3x + 6$



2) $y = 5x - 3$



♥

3-2 Graphing from Point-Slope Form

Objective: I can graph an linear equation from point-slope form

The diagram shows the point-slope formula $y - y_1 = m(x - x_1)$ with several annotations. A blue arrow points from the word "slope" to the variable m . A green arrow points from the word "coordinates of a point on the line" to the variables y_1 and x_1 .

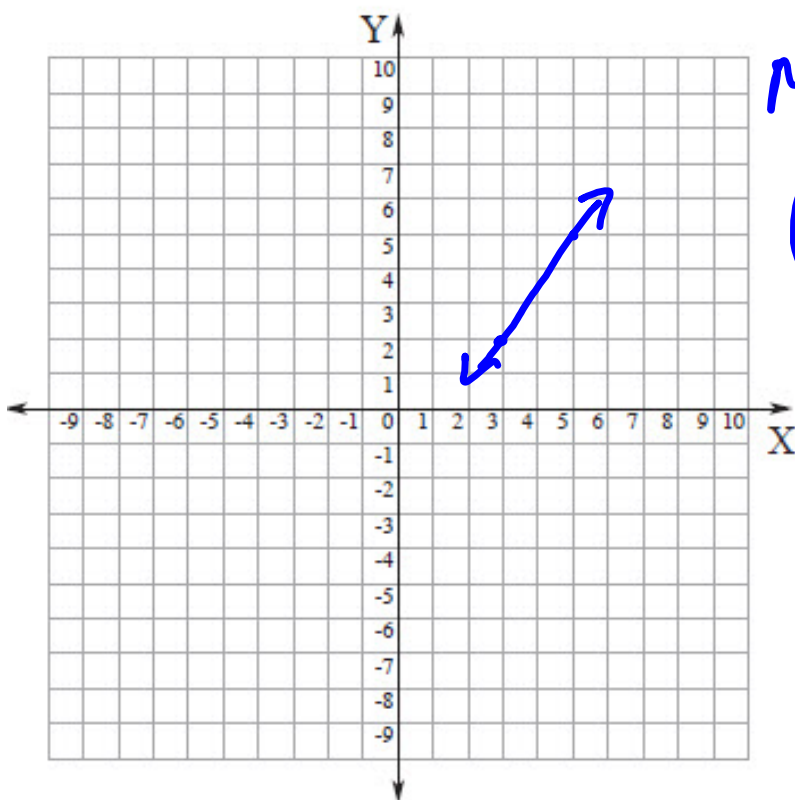
$$y - y_1 = m(x - x_1)$$

coordinates of a point on the line

Point-Slope Form Steps:

1. Find the slope $m =$
2. Take the opposite x, y values for my pt.
3. Graph the line

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



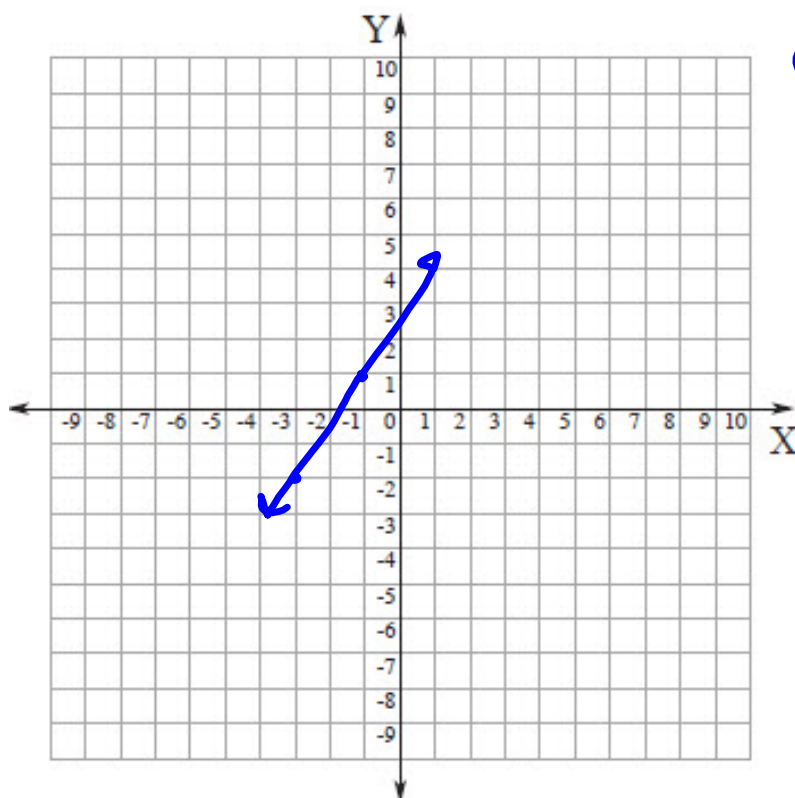
$$M = \frac{3}{2}$$

(3, 2)

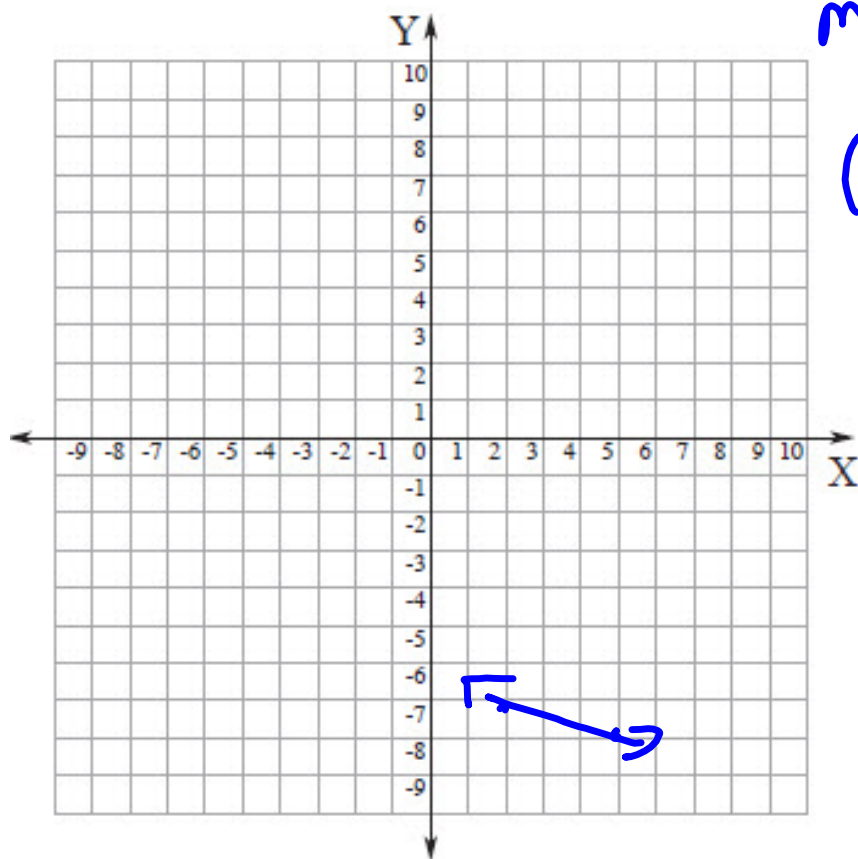
$$y + 2 = \frac{3}{2}(x + 3)$$

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

$$(-3; 2)$$



$$y + 7 = -\frac{1}{3}(x - 2)$$



$$m = -\frac{1}{3}$$
$$(2, -7)$$

$$y + 0 = -(x - 2)$$

$$m = -1$$

$$(2, 0)$$

