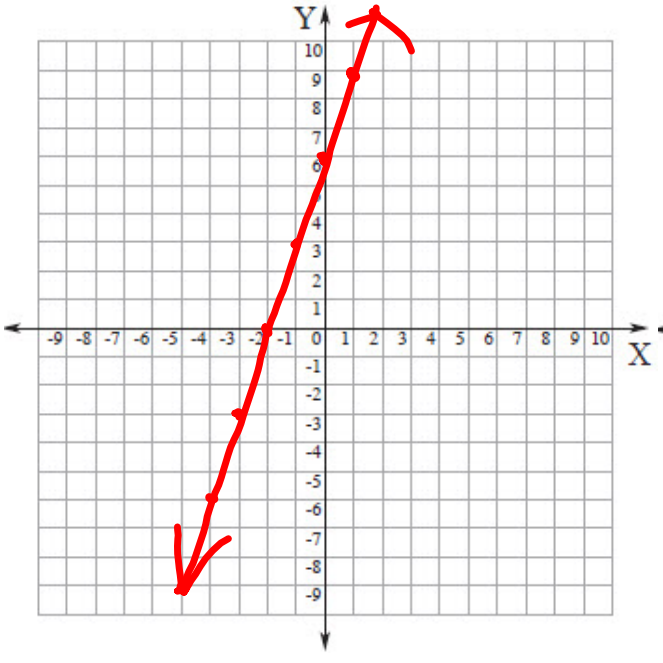
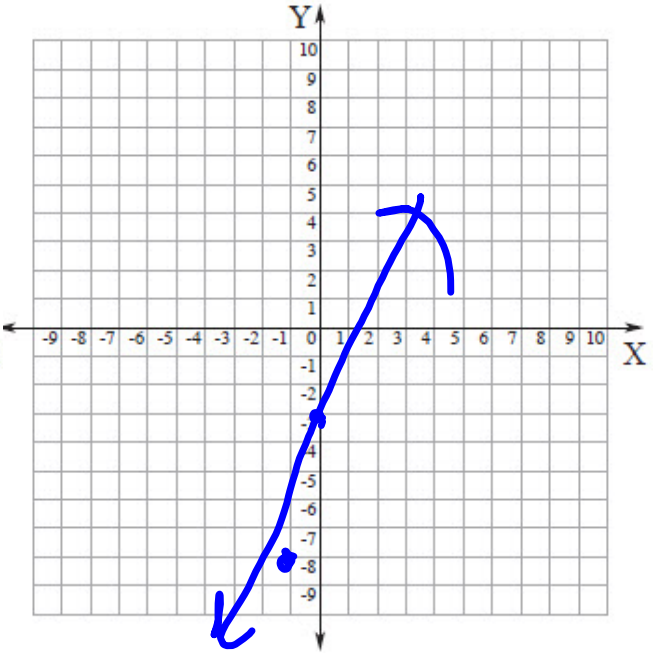
Warm up

1) $y = 3x + 6$

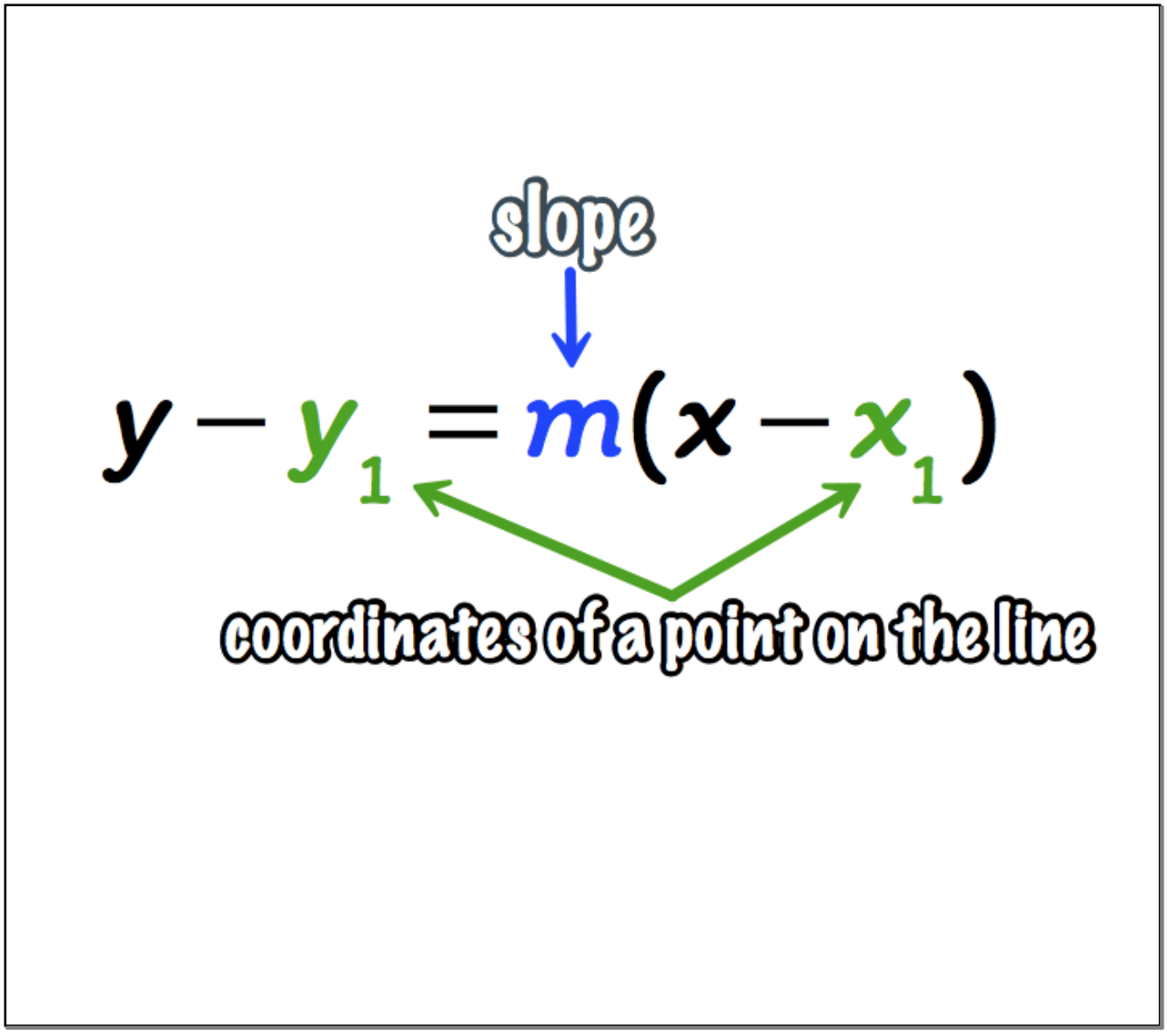


2) $y = 5x - 3$



3-2 Graphing from Point-Slope Form

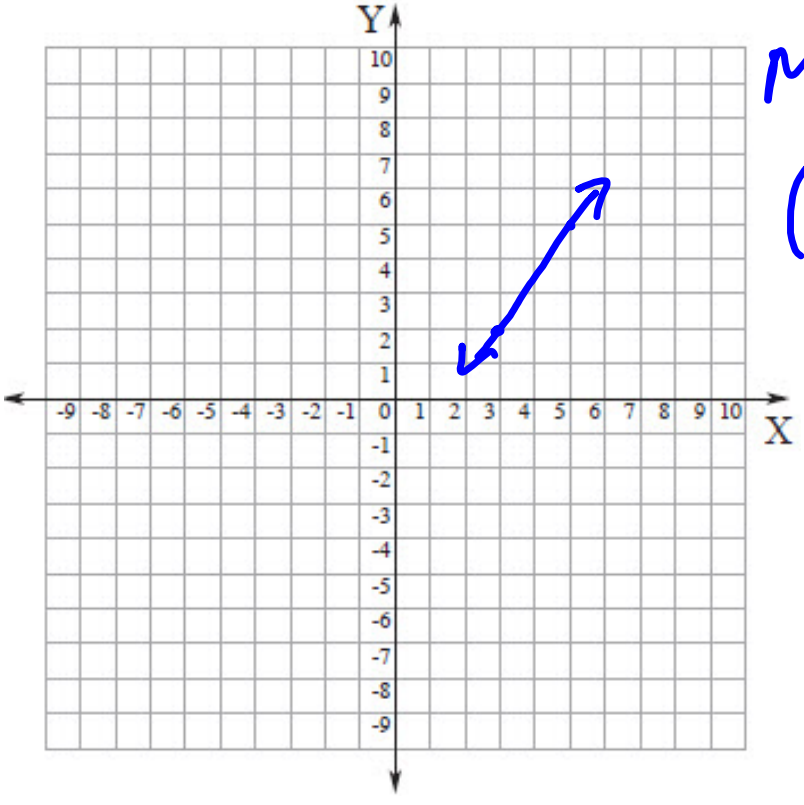
Objective: I can graph an linear equation from point-slope form


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

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



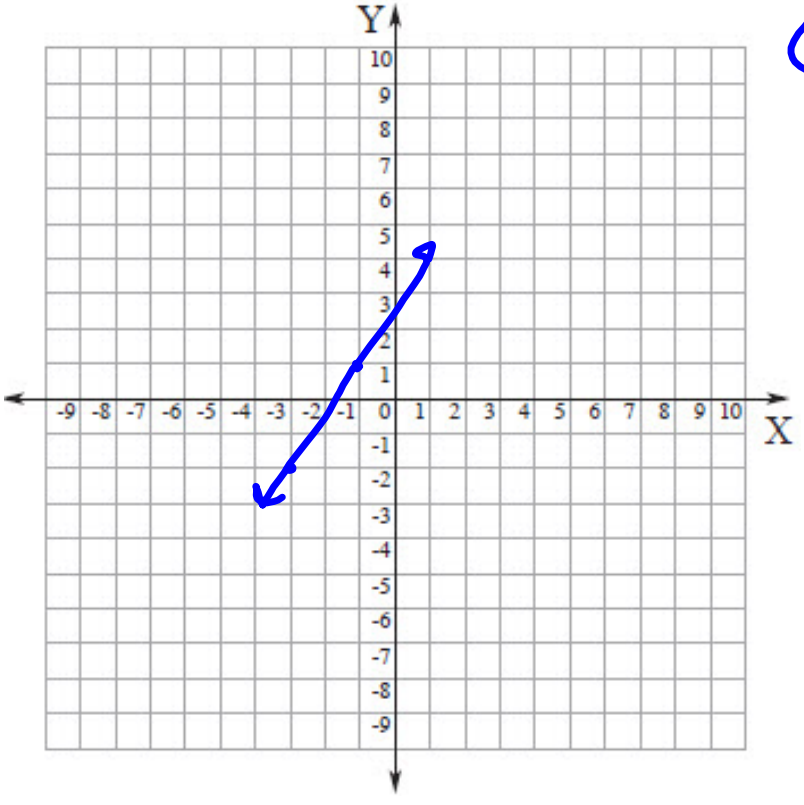
$M = \frac{3}{2}$

(3, 2)

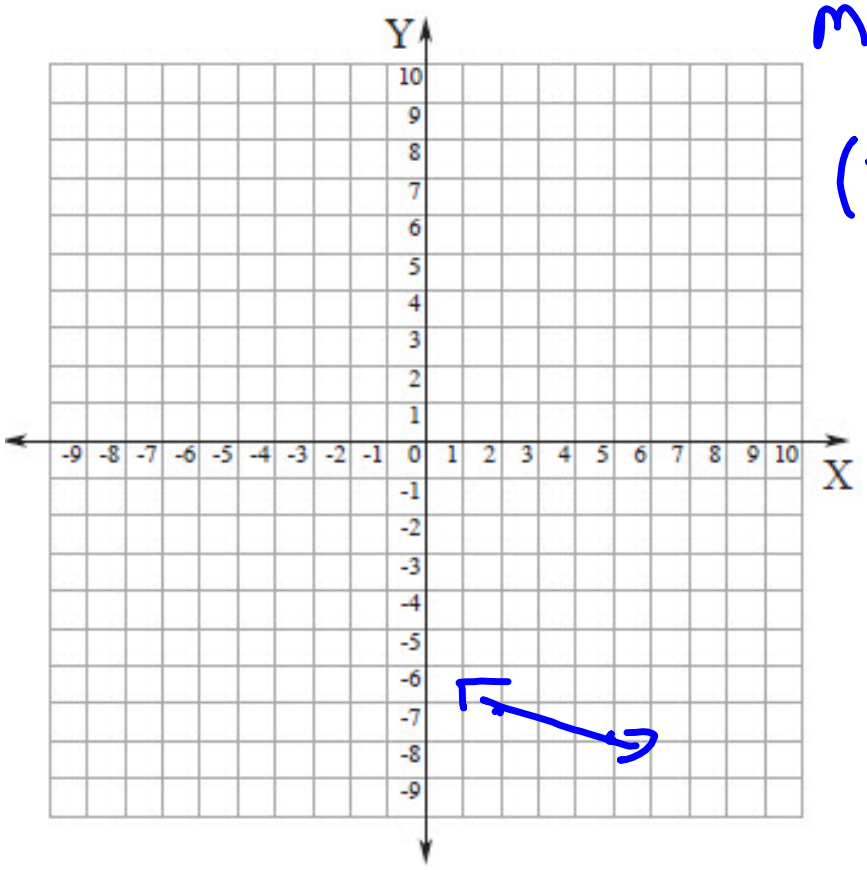
$$y + 2 = \frac{3}{2}(x + 3)$$

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

$(-3; -2)$



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



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

$(2, -7)$

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

$m = -1$

$(2, 0)$