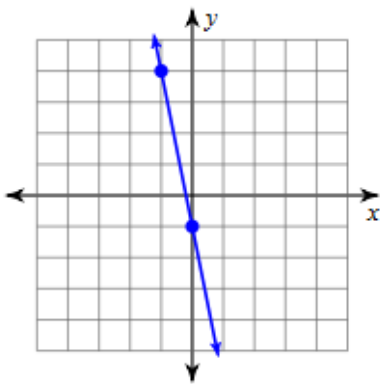


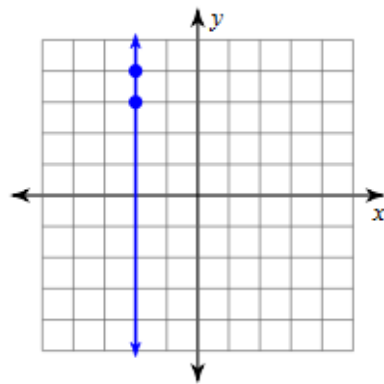
Slope Formulas	
Using a Graph	Using Two Points
$m = \frac{\text{rise}}{\text{run}}$	$m = \frac{y_2 - y_1}{x_2 - x_1}$

Find the slope of the line using the points on the graph.

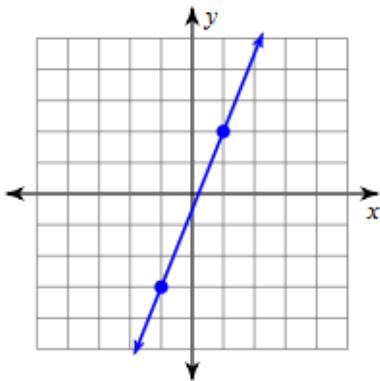
1)



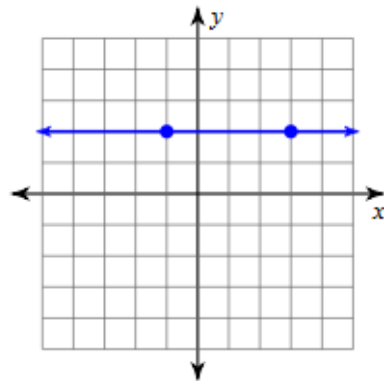
2)



3)



4)



Find the slope of the line that passes through the given points.

5) $(-14, -8)$ and $(0, -8)$

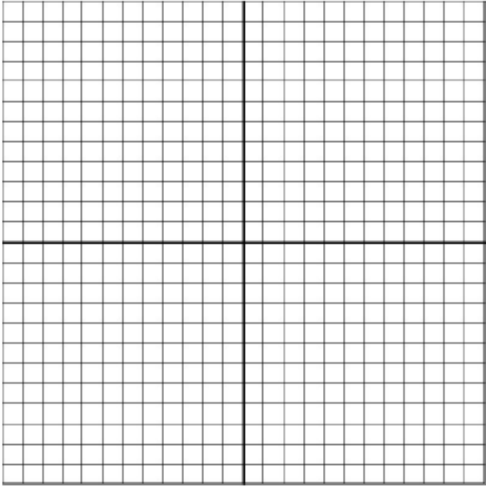
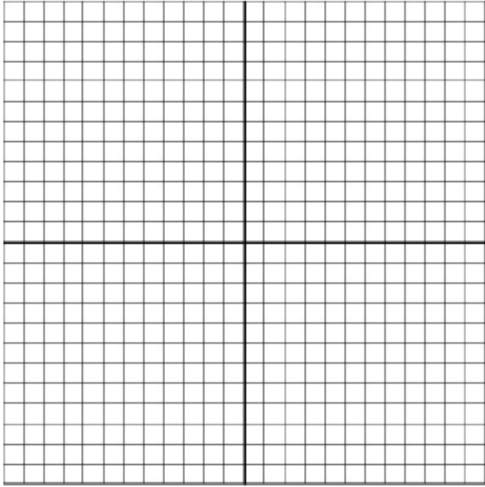
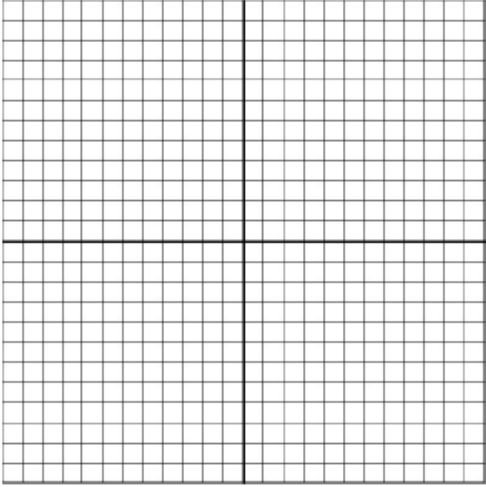
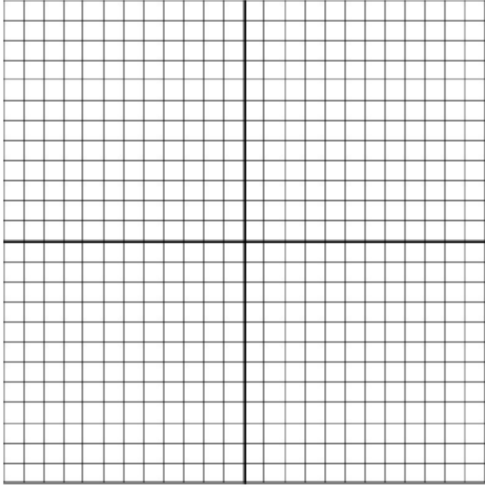
6) $(-4, 14)$ and $(-1, -7)$

7) $(-5, 14)$ and $(-13, -6)$

8) $(15, -20)$ and $(15, -13)$

Types of Linear Equations		
Slope-Intercept Form	Standard Form	Point-Slope Form
$y = mx + b$ <p>where m is the slope and b is the y-intercept</p>	$Ax + By = C$ <p>where $A, B,$ and C are integers</p>	$y - y_1 = m(x - x_1)$ <p>where m is the slope and (x_1, y_1) is a point on the line</p>

Convert each equation from standard to slope-intercept form. Identify the slope and y -intercept. Then, graph it.

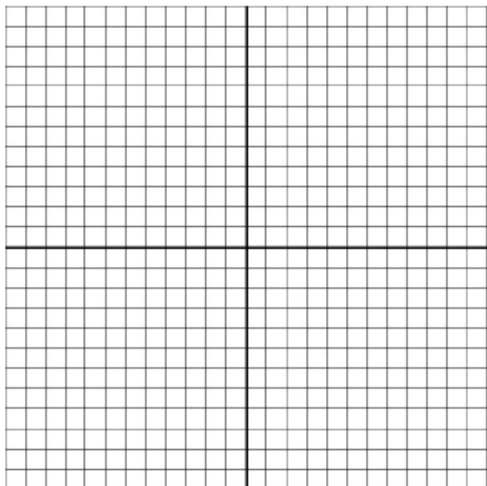
<p>9) $x + 6y = 12$</p> <p>Slope-Intercept: _____</p> <p>$m =$ _____, $b =$ _____</p> 	<p>10) $4x - 3y = 0$</p> <p>Slope-Intercept: _____</p> <p>$m =$ _____, $b =$ _____</p> 
<p>11) $4x - 5y = -10$</p> <p>Slope-Intercept: _____</p> <p>$m =$ _____, $b =$ _____</p> 	<p>12) x-intercept = -1 and y-intercept = -4</p> <p>Slope-Intercept: _____</p> <p>$m =$ _____, $b =$ _____</p> 

Convert each equation from point-slope to slope-intercept form. Identify the slope and y -intercept. Then, graph it.

13) $y + 1 = -\frac{3}{4}(x - 4)$

Slope-Intercept: _____

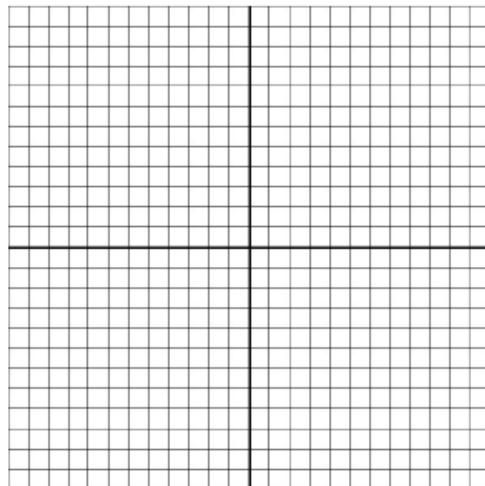
$m =$ _____, $b =$ _____



14) $y + 3 = \frac{4}{5}(x + 5)$

Slope-Intercept: _____

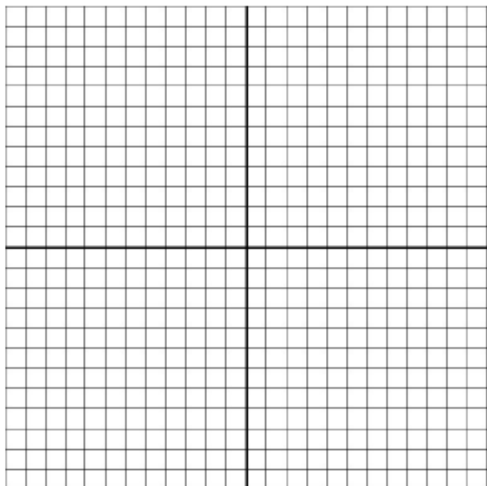
$m =$ _____, $b =$ _____



15) $y + 1 = -(x - 3)$

Slope-Intercept: _____

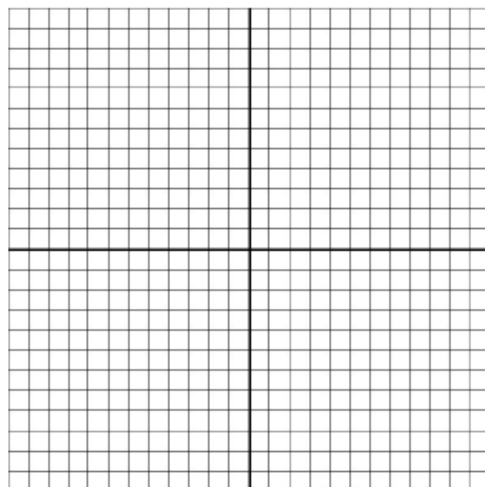
$m =$ _____, $b =$ _____



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

Slope-Intercept: _____

$m =$ _____, $b =$ _____

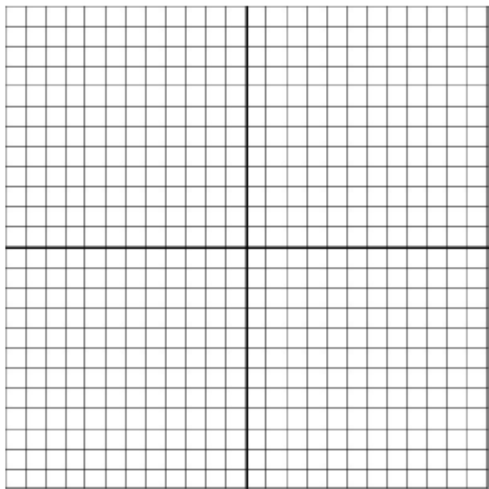


Graph the horizontal and vertical lines.

17) $y = 9$

Circle one: HOY VUX

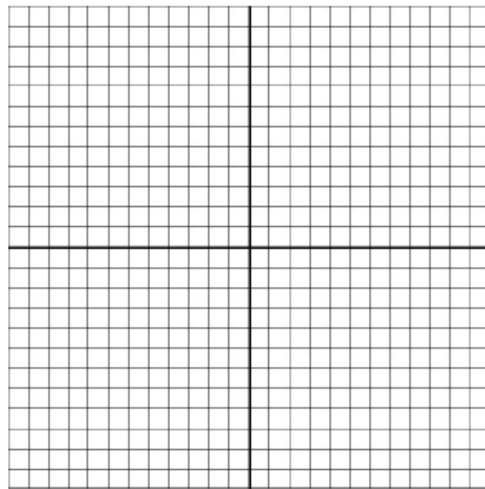
$m =$ _____



18) $x = -7$

Circle one: HOY VUX

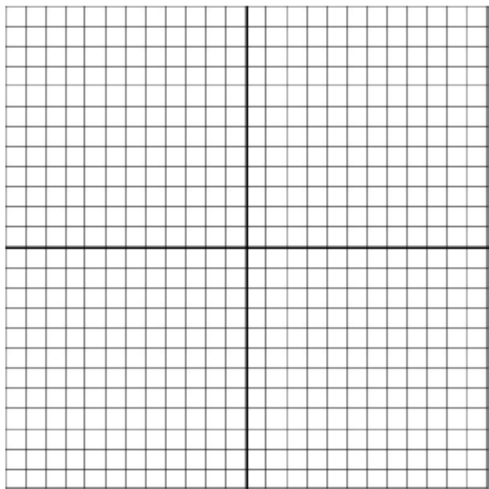
$m =$ _____



19) $-3x = 24$

Circle one: HOY VUX

$m =$ _____



20) $-2y = -6$

Circle one: HOY VUX

$m =$ _____

