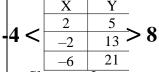
Find the y-intercept from the tables: Don't forget to list as a coordinate point. For EC, find x-intercepts.

1.

•	-
X	Y
2	7
0	1
5	16

2.

EXAMPLE:



3.

Y
7
13
15

4.

X	Y
5	23
4	21
3	19

Slope = -2

$$y = -2x + b$$

$$5 = -2(2) + b$$

 $5 = -4 + b$

$$+4 = +4$$

$$\frac{7 - 1}{9 = b}$$

y-intercept =
$$(0, 9)$$

Find the slope and intercepts from the following points and then write the equation of the line that goes through the two given points.

5. (3, 6) and (0, 8)

7.
$$(4, 8)$$
 and $(2, 5)$

Slope: $\frac{2}{1}$ or 2

y-intercept: (0,3)

x-intercept: $\left(-\frac{3}{2},0\right)$

Eq: y = 2x + 3

Slope: _____

y-intercept: _____

x-intercept: _____

Eq:_____

Slope: _____

y-intercept: _____ x-intercept: _____

Eq:_____

Slope: _____

y-intercept: _____

x-intercept: _____ Eq:_____

Find the equation from the given point and slope.

$$1 = 2(6) + b$$

$$1 = 12 + b$$
, so, $b = -11$

$$y = 2x - 11$$

9. $m = -5 \& point(\frac{1}{5}, 8)$

Find the y-intercept and x-intercept of the following equations:

10.
$$y = -18 - 2x$$

11.
$$3x + 6 = y$$

y-intercept : _____

x-intercept :_____

y-intercept : _____

x-intercept : _____

y-intercept : _____

x-intercept : _____

8. $m = \frac{1}{2}$ & point (4, -2)

EXAMPLE: 6x + y = -3x-intercept is y-intercept is when x = 0, when y = 0,

$$6(0) + y = -3$$

$$y = -3$$
 $6x + (0) = -3$
 $y = -3$ $6x = -3, x = -3$

$$y = -3$$
 $(0, -3)$

$$6x = -3$$
, $x = -\frac{1}{2}$
(-\frac{1}{2}, 0)

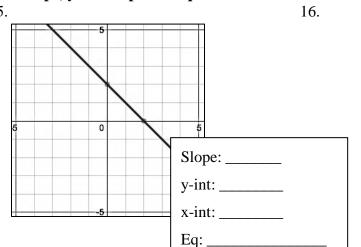
$$12.3x + 5y = -15$$

$$13. \, 4x - 12y \, = \, 16$$

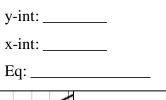
$$14.8y + 6x = 2$$

Find the slope, y-intercept and equation of the line in the following graphs:

15.



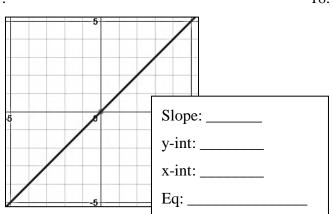
S:



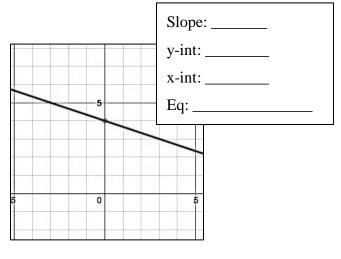
Slope: _____

0 Eq. ______

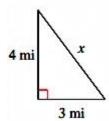
17.



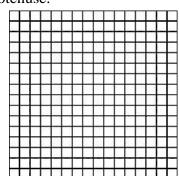
18.



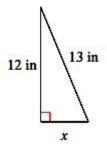
19. Find the **slope** of line x.



20. Plot #19 on the grid and **draw the squares** to **find the length** of the hypotenuse.



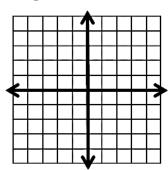
21. Find the **length** of x.



For #22 and #23, graph 2 equations each on the coordinate grids.

22.
$$y = -\frac{3}{2}x + 4$$

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



23.
$$y = -2x - 2$$

 $y = -2x + 1$

