In problems 1-3, perform the following with each equation.

- A. Use a t-table to find four solutions. Find and label the x and y-intercepts.
- B. Graph the equation, and give the slope of the graph.

1)
$$3x = 9y + 18$$

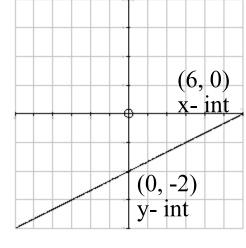
2)
$$4y = -12$$

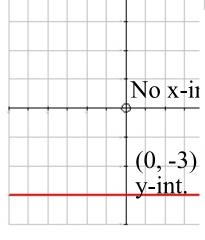
3)
$$-5y + 2x = 4y + 10 - 9y$$

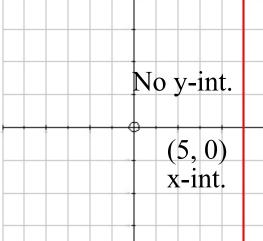
X	Y $m = 1/3$
6	0 - x-int.
Λ	2 v int

$$\begin{array}{c|cc} X & Y & m=0 \\ \hline 0 & -3 & -y-int. \\ & & 2 \end{array}$$

X	Y	m = 0
5	0 - x-	int.
5	1	
5	1	







Put the following equations in slope-intercept form. Graph them with each graph. (Use the back of the worksheet, if necessary.)

4)
$$2x = -5y + 10$$

 $\frac{-10}{2x - 10} = -5y$
 -5
 $-2/5x + 2 = y$

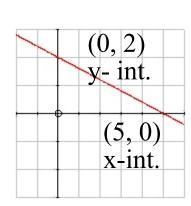
5)
$$3x - 4y = 24$$

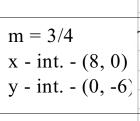
 $-3x - 3x$
 $-4y = -3x + 24$
 -4

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

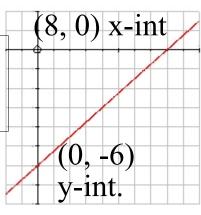
$$m = -2/5$$

x-int. - (5, 0)
y-int. - (0, 2)





y = 3/4x - 6



6)
$$10y = 3y + 28$$

$$y = 4$$

7)
$$5x + 8y = 20$$

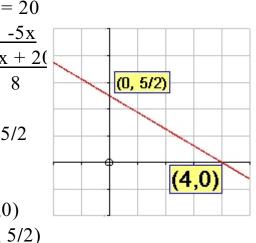
 $-5x$ $-5x$
 $8y = -5x + 20$

$$y = -5/8x + 5/2$$

$$m = -5/8$$

x-int. - (4,0)

y-int.
$$-(0, 5/2)$$



8) What does it mean for value(s) to satisfy an equation?

When substituted for the variables in the equation, the equation makes a true statement.

9) What is a solution of an equation?

A set of values that satisfies the equation.

10) What is the graph of an equation?

The set of points whose coordinates satisfy the equation.

11) What is the x-intercept? What do we always know about it?

The point where the graph crosses the x-axis. The Y coordinate is always zero.

12) What is the y-intercept? What do we always know about it?

The point where the graph crosses the y-axis. The X coordinate is always zero.

13) What is slope?

A measure of steepness. Rise over run.