Bell Work 3/3/2015

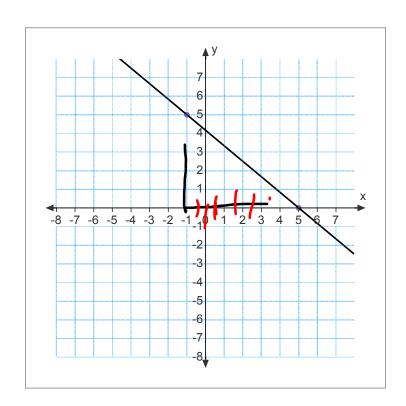
Grab a small sheet of paper and solve the following:

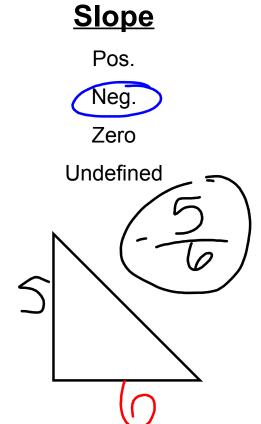
$$\frac{1}{2}(8x-12)+4=5x-3+10x+7$$

$$-4x-2+15x+4$$

$$-2+15x+4$$

$$-4+15x+4$$





Intercepts

X-Intercept: where the line crosses
the x-axis.

Y-Intercept: Where the line crosses the y-axis.

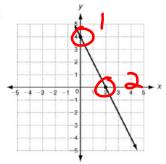
LESSON 5-2

Practice A

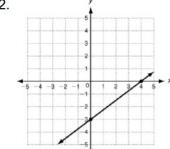
Using Intercepts

Find the x- and y-intercepts.

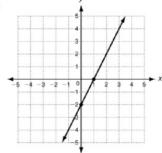
1.



2.



3.

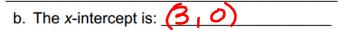


x-intercept: (0, 0)

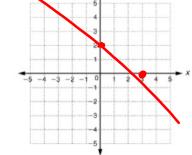
x-intercept: ()

x-intercept: $\begin{pmatrix} 1 & 0 \\ y$ -intercept: $\begin{pmatrix} 0 & -2 \\ \end{pmatrix}$

- 4. Find the intercepts of 2x + 3y = 6 by following the steps below.
 - a. Substitute y = 0 into the equation. Solve for x.



c. Substitute x = 0 into the equation. Solve for y.



- d. The *y*-intercept is:
- e. Use the intercepts to graph the line described by the equation.

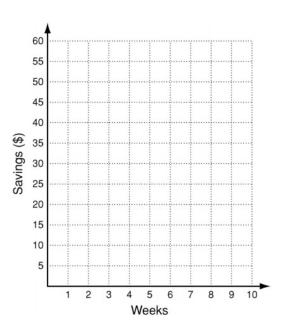
(a)
$$2x + 3(0) = 2x = 62$$

 $2x = 62$
 $x = 3$

5. Jennifer started with \$50 in her savings account. Each week she withdrew \$10. The amount of money in her savings account after x weeks is represented by the function f(x) = 50 - 10x.

a. Find the intercepts and graph the function.

b.	What does	each	intercept	represent?



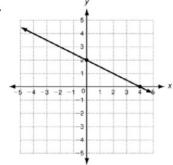
LESSON

Practice B

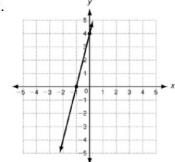
Using Intercepts

Find the x- and y-intercepts.

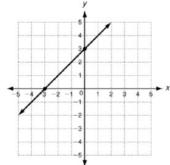
1.



2.

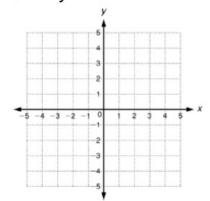


3.

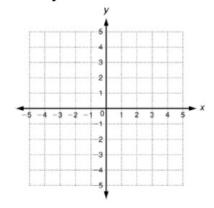


Use intercepts to graph the line described by each equation.

4.
$$3x + 2y = -6$$



5.
$$x - 4y = 4$$



6. At a fair, hamburgers sell for \$3.00 each and hot dogs sell for \$1.50 each. The equation 3x + 1.5y = 30 describes the number of hamburgers and hot dogs a family can buy with \$30.

a. Find the intercepts and graph the function.

b. What does each intercept represent?

