Name_____

Date_____

Period_____

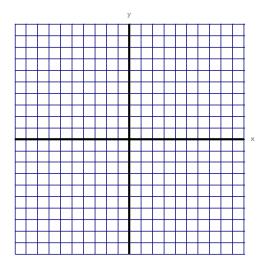
Graph the equations.

1.
$$5x - 2y = 12$$

Slope - Intercept Equation: _____

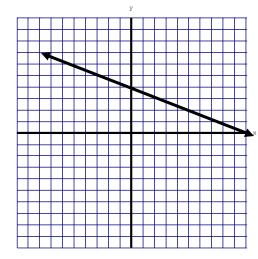
$$m =$$

$$b =$$



Given the graph, write the equation.

2.



$$m =$$

$$b =$$

3. Write an equation given the following information:

a.
$$m = -6$$
 and passes thru $(3,-11)$ b. passes thru $(-4,10)$ and $(1,14)$

Name	Date	Period

- 4. Mr. Sacco's beard grows at a rate of 1mm per 5 days. (1 in = 2.54 cm and 1 cm = 10 mm)
- a) convert this rate into inches/day
- b) convert this rate into feet/year
- 5. Match the equation or inequality to the correct situation by writing the letter next to the word problem.

a.
$$2x + 115 = 142$$

b.
$$2x - 142 \ge 115$$

c.
$$142 - 2x < 115$$

- After spending \$142 on supplies, I'm going to sell my cookies for \$2 each and hope to make at least \$115
- I get \$2 for each car I wash. I had \$115 before I started and now I have \$142.
- I am trying to get under 115 pounds. I weigh 142 pounds now and I think I can lose 2 pounds per week. _____
- 6. Solve the inequality.

$$\frac{15-4x}{5} < 9$$

7. Solve.

$$\frac{7-2x}{4x} = \frac{6}{8}$$

8. Simplify.

$$-28 + 4(-2)^2 - 10(-3) + (-5)^2$$