

Unit 2 HW 4

Name Key NOWORK

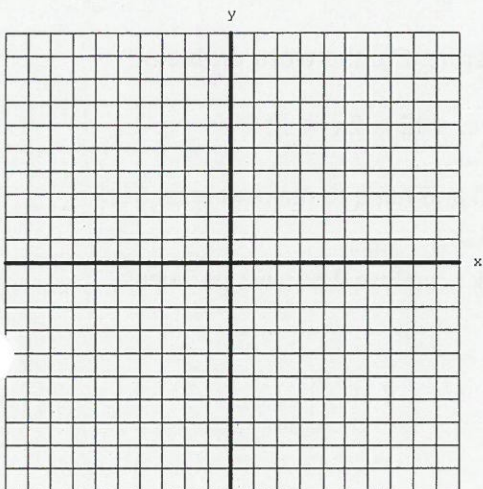
Date _____ Period _____

Graph the equations.

1. $5x - 2y = 12$

Slope - Intercept Equation: $y = \frac{5}{2}x - 6$

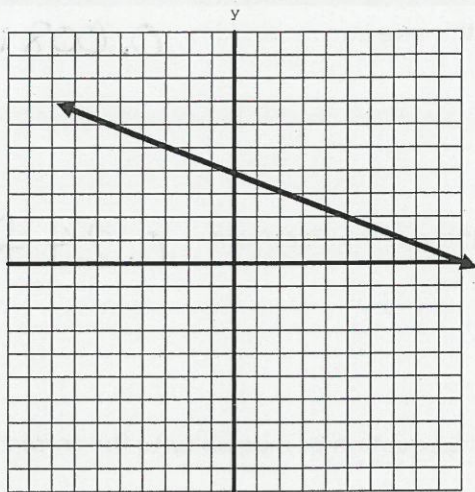
$m =$ _____ $b =$ _____



} see teacher

Given the graph, write the equation.

2.



$m =$ _____ $b =$ _____

Equation: see teacher

3. Write an equation given the following information:

a. $m = -6$ and passes thru $(3, -11)$

$y = -6x + 7$

b. passes thru $(-4, 10)$ and $(1, 14)$

$y = \frac{4}{5}x + 13.2$

OR

$y = \frac{4}{5}x + \frac{66}{5}$

Unit 2 HW 4

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 0.008 in/day

b) convert this rate into feet/year 0.24 ft./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. $2x - 142 \geq 115$ c. $142 - 2x < 115$

see teacher }

- 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.

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

$$x > -7.5$$

7. Solve.

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

$$x = 1.4$$

8. Simplify.

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

$$43$$