## Alg 1 Week 5 Tuesday Warm Up

1. Skill 10: Solve the system using and algebraic method and check your answer.

$$3x - 2y = 6$$

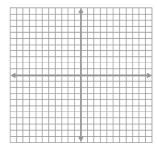
$$5x + 3y = -9$$

Check:

2. Skill 11: Solve the system of linear inequalities and check a point in the solution.

$$3x + 2y \le 6$$

$$2x + 3y > 6$$

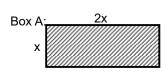


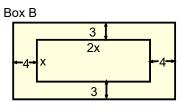
Check:

 Skill 12: Simply Exponential Expressions. Simplify, leaving no negative exponents. Show all steps.

$$\frac{w \cdot w^{-2} \cdot \left(w^8\right)^{-3}}{w^0 \cdot w^{-25}}$$

4. Use the diagrams below to answer (a) and (b)





- a) Write an expression for the area of box A. Use A = bh
- b) Write an expression for the area of the entire box B.
- 5. Fill in the "diamond" problems. Multiply to make the top, add to make the bottom.











6. Find the degree and the term for the following:

a) 
$$6x - 4$$

b.) 
$$3x^2 + 2xy - 7$$

Algebra 1 Week 4 Review #2 Chp 6/7

## CW/HW

1.Simplify, leaving your answer in exponent form with only positive exponents. Show work.

$$j) \; \frac{c^7}{c \cdot \left(c^2\right)^2}$$

a) 
$$\left(w^7\right)^2$$

Answer:\_

b) 
$$w^{-1}$$

Answer:

k)  $\left(\frac{2x^2}{3y^{-4}}\right)^4$  Answer:\_\_\_\_\_

c) 
$$(500)^0$$

Answer:\_\_\_\_

d) 
$$c^8 \cdot c^4$$

Answer:\_\_\_\_

a) 
$$\sqrt[3]{8} =$$
 \_\_\_\_\_because \_\_\_-.\_\_=\_\_\_

b)  $\sqrt{49} =$  \_\_\_\_ because \_\_\_--\_=\_\_

e) 
$$\frac{a^{-4}}{a^7}$$

Answer:\_\_\_\_

f) 
$$\frac{24x \ y^8}{16x^4y^{-3}}$$

Answer:\_

c) 
$$4 = \sqrt[3]{}$$

d) 
$$\sqrt[4]{x} = x$$
 (fraction exponent)

g)  $8a^9 \cdot 4a^{-17}$ Answer:\_\_ 3. Evaluate. Show your work. Answers only will not get any credit. (Yes, these are fractional exponents.)

a) 
$$125^{\frac{1}{3}}$$

Answer:\_\_\_\_\_

h) 
$$(3x^6)^2 \cdot (4x^{-8})^2$$
 Answer:\_\_\_\_\_

b)  $4^{\frac{3}{2}}$ 

Answer:\_\_\_\_\_

i) 
$$(2x^5y)^3$$
 Answer:\_\_\_

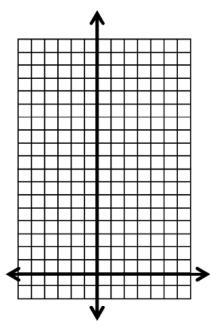
c)  $8\overline{3}$ 

Answer:\_\_\_\_

## A1 S2 w5d2 Ch 6&7 Review 2

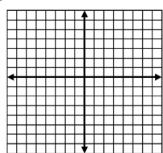
4. Using a chart, graph  $y=2\cdot\left(rac{1}{3}
ight)^x$ 

x	у
2	
1	
0	
-1	
-2	
-2	



- The scale is 1...do **NOT** change the scale!
- 5. Solve by graphing

$$x + 2y \le 6$$



6. Solve the system by substitution method.

$$y = 3x + 7$$

$$2x - y = -2$$

7. Solve by elimination method.

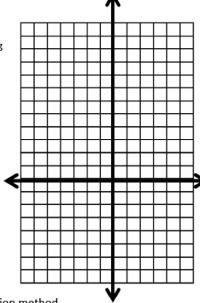
$$4x - 5y = -17$$

$$6x - 3y = -21$$

8. Solve by graphing

$$9x + 3y > 27$$

$$x-2y\geq -4$$



9. Solve by elimination method

$$x - 2y = -4$$

$$9x + 3y = 27$$

Answer:\_\_\_\_

10. Is (2,3) a solution to this system of inequalities?

$$9x + 3y > 27$$

$$x - 2y \ge -4$$