Alg I Week 4 Mon

Warm Up

1. Skill 10: Solve a System of Linear Equations Algebraically & check your answer

$$y = 2x$$

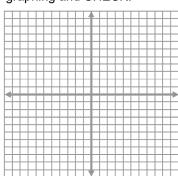
y - 4 = -6x

Check:

2. Skill 11: Solve a System of Linear Inequalities by graphing and CHECK.

$$A. \quad y \ge \frac{1}{2}x$$

B.
$$x < 2$$



Check:

3. Skill 12: Simplify an Exponential Expression

Simplify, leaving no negative exponents.

A)
$$\frac{x^{-1} \cdot (x^{-3})^2}{x^0}$$

$$B) \quad \frac{\left(m^3\right)^{-2} \bullet m^{-1}}{m^3 \bullet m^2 \bullet m}$$

4. Diamond Problems: What multiplies to make the top number and adds to make the bottom number?

a.



b.



C.



d



Algebra 1

Review #1 Chp 6/7

CW/HW

Name____

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

a)
$$c^{-2} \cdot c^9$$
 Answer:_____

b)
$$w^{-6}$$

c)
$$(x^{10}y^4)^0$$
 Answer:_____

d)
$$\frac{a^4}{a^{12}}$$
 Answer:_____

e)
$$(w^{-3})^{-5}$$
 Answer:_____

f)
$$\frac{12x^{-2}y}{15x^4y^{-3}}$$
 Answer:_____

g)
$$(5x^4)^2$$
 Answer:_____

h)
$$-3a^9 \cdot 7a$$
 Answer:_____

i)
$$(4x^{-7})^3 \cdot (x^8)^2$$
 Answer:_____

j)
$$\frac{c^6 \cdot \left(c^5\right)^{-3}}{c}$$
 Answer

Answer:____

$$k) \quad \left(\frac{4x^8}{3y}\right)^2$$

a)
$$\sqrt[3]{216} =$$
 _____because ______ = ____

b)
$$\sqrt{81} =$$
 ____ because ___- =___

d)
$$\sqrt[9]{56} = 56$$
 (fraction exponent)

Evaluate. Show your work. Answers only will not get any credit. (Yes, these are fractional exponents.)

a)
$$144^{\frac{1}{2}}$$
 Answer:_____

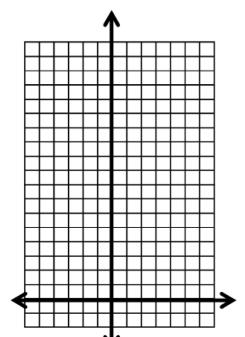
b)
$$16^{\frac{3}{4}}$$
 Answer:_____

c)
$$27^{\frac{2}{3}}$$
 Answer:_____

A1 S2 w4d1 Chapter 6&7 Review 1

4. Using a chart, graph $y = 2 \cdot 3^x$

x	у
2	
1	
0	
-1	
-2	
-3	
-4	



7. Solve by elimination method.

$$8x - 2y = 6$$
$$5x - 7y = -48$$

8. Is (-7,4) a solution to this system of equations?

$$4x + 9y = 8$$

$$2y = 22 + 2x$$

Work:

The scale is 1...do **NOT** change the scale!

5. Solve by graphing

$$x - 3y < -6$$

A

9. Is (3,-5) a solution to this system of inequalities?

$$2x + 5y < -1$$

$$4y - x \ge 17$$

Work:

6. Solve the system by substitution method.

$$y = 2x + 7$$

$$2x - y = -7$$

Answer:_____