Algebra Review #23 SHOW HOW YOU SOLVED EACH PROBLEM

1. Evaluate the following: If x = 8 and y = -5,

$$2\sqrt[3]{8x} + |y|$$

2.

The function below contains ordered pairs of the form (x, y).

$$f = \{(-3, 4), (-4, -5), (-8, 2), (0, 2)\}$$

What is the domain of the function?

3. Ashley wrote these steps when solving an equation.

$$6x + 3 = 21$$

Step 1: $6x = 18$
Step 2: $x = 3$

Which property justifies the work between Step 1 and Step 2?

4. Write the equation of a line that passes through (-2,5) and (-1,10) in point-slope form.

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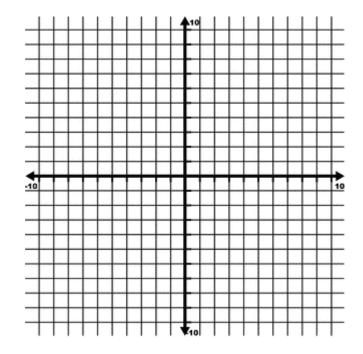
5. Find the slope and the y-intercept from the following equation (remember, the equation must be in y=mx+b form).

$$4x - 2y = 12$$

Slope: Y-intercept: ____

6. Draw a graph of the equation

$$y = 7x$$



What is the domain? What is the range?

What is the slope? What is the y-intercept?

7. What is the value of the following:

$$3\sqrt{64} - \sqrt{121}$$

8. What is the value of the following:

$$-\sqrt{14}\cdot 3\sqrt{28}$$

9. Solve for x:

What is the solution to the following equation?

$$\frac{-8x-1}{3} + 1.5 = -9.5$$

10. Solve for y.

$$\frac{y-2x}{x} = 12$$