## Algebra Review \#23 SHOW HOW YOU SOLVED EACH PROBLEM

1. Evaluate the following:

If $x=8$ and $y=-5$,

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

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.

$$
6 x+3=21
$$

Step 1: $\quad \mathbf{x} x=18$
Step 2: $\quad x=3$
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.
$\qquad$
5. Find the slope and the $y$-intercept from the following equation (remember, the equation must be in $y=m x+b$ form).

$$
4 x-2 y=12
$$

Slope: $\qquad$ Y-intercept: $\qquad$
6. Draw a graph of the equation

$$
y=7 x
$$



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:

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

9. Solve for $x$ :

What is the solution to the following equation?

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

10. Solve for $y$.

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

