

Algebra Review #16 *SHOW HOW YOU SOLVED EACH PROBLEM*

1. Fill in the properties that justify each step:

$4x + 2 - 2x = 6(x + \frac{1}{6})$	Given
$4x - 2x + 2 = 6(x + \frac{1}{6})$	
$2x + 2 = 6x + 6 \cdot \frac{1}{6}$	
$2x + 2 = 6x + 1$	
$-4x + 2 = 1$	
$-4x = -1$	
$x = \frac{1}{4}$	

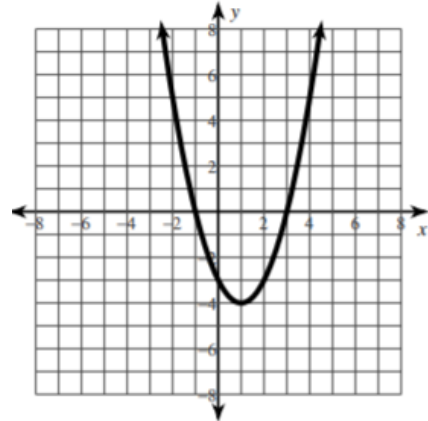
2. What is the range of the function $f(x) = -x + 4$ if the domain is $\{-7, -3, 10\}$?

3. Tell whether the equation has one, none, or infinite solutions:

$$-6p + 1 = 5 - (6p + 4)$$

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4. Look at the graph of a function. Complete the statement.

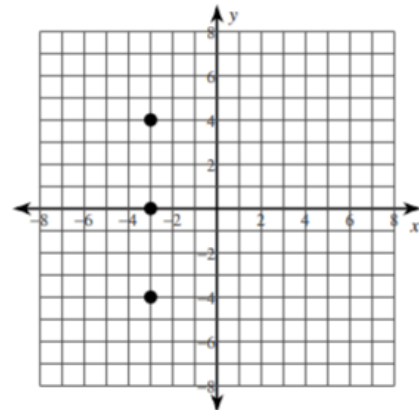


$$\{y: y \geq \square\}$$

5. Solve the following equation:

$$\frac{1}{4}x = \frac{3}{4}(x + 4)$$

6. Observe the following graph.



Is the following graph a function? Why or why not?

What is the domain?

What is the range?

7. What is the value of the following:

$$3\sqrt{24} + 5\sqrt{150}$$

9. Solve for variable y:

$$Ax + By = C$$

8. Simplify the radical.

$$\sqrt{1458}$$

10. Solve for variable y:

$$5xy + 3 = 7$$