## Algebra Review #18 SHOW HOW YOU SOLVED EACH PROBLEM

1. Which expression represents the phrase "twice the sum of a number and three"?

- A 2(x + 3)
- B 2x + 3
- C 3 + 2x
- D x + 3(2)

2. If  $f(x) = (x - 5)^2 - 3x$ , list the range if the domain is  $\{-1, 0, 1\}$ .

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

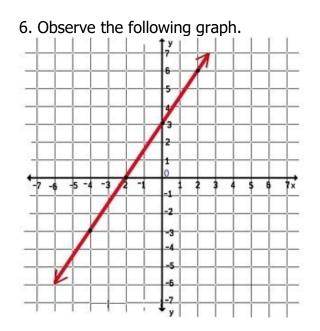
-5x + 10 = -3(2x - 7)

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4. Find the slope between the following coordinates: (-4,7) and (-5,1)

5. Solve the following equation:

$$3x - 3 = \frac{11x + 1}{4}$$



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

What is the domain?

What is the range?

What is the slope?

7. What is the value of the following:

 $3\sqrt{72} - \sqrt{50}$ 

9. Students were asked to write two equations that represented the same formula. Which student incorrectly completed the assignment?

Student	Equation 1	Equation 2
Darren	T = c + p	p = T - c
Julie	$l = \frac{V}{wh}$	$h = \frac{V}{lw}$
Brenda	$t = \frac{D}{r}$	D = rt
Harold	$b = \frac{2A}{h}$	$h = \frac{2b}{A}$

8. Simplify the radical.

 $\sqrt{512}$ 

10. What is the solution for *h* in the following equation?

$$V=\frac{1}{3}\pi r^2h$$