

Algebra Review #33 SHOW HOW YOU SOLVED EACH PROBLEM

1.

Solve:

$$(2x^2 - 5x + 7) + (5x^2 + 7x - 13)$$

2.

Solve:

$$(5x^2 + x - 10) - (x^2 + 16x - 10)$$

3. How many solutions does the following equation have?

$$5(x - 3) = -(-6x + 1)$$

- A Infinite
- B One
- C None
- D Two

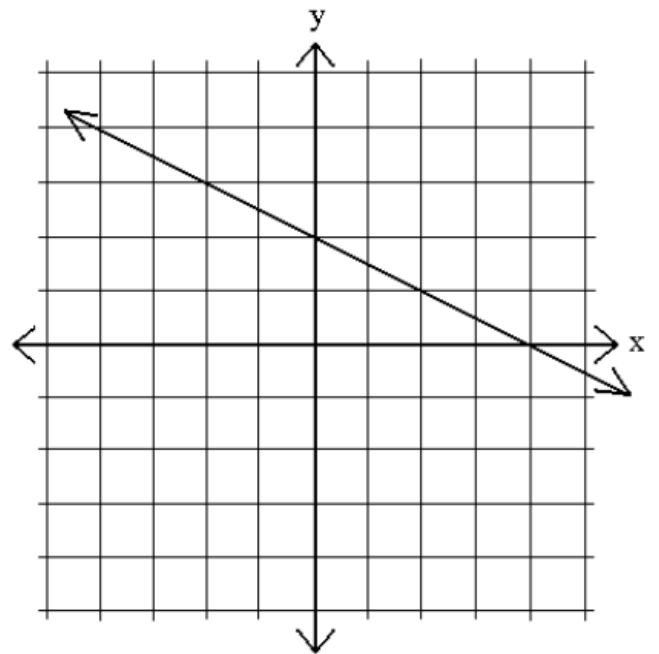
NAME _____

4. Fill in the properties that justify each step:

$-(-5 + x) + 3x = x + 10$	Given
$5 - x + 3x = x + 10$	
$5 + 2x = x + 10$	Combining Like Terms
$5 + x = 10$	
$x = 5$	

5. Find the equation of a line with a slope of -6 and which goes through the point (2,3).

6. Write an equation for the graph shown below:

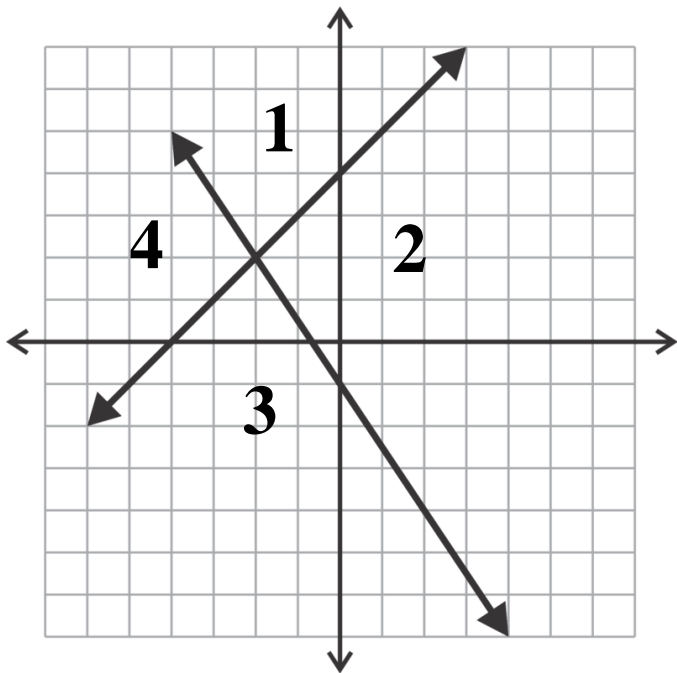


7. Which of the following are equivalent to $8\sqrt{21}$

- A $\sqrt{29}$
- B $\sqrt{84}$
- C $\sqrt{168}$
- D $\sqrt{1344}$

8. Which section should be the shaded solution for the following system of inequalities:

$$y \leq -\frac{3}{2}x - 1$$
$$y \geq x + 4$$



- A 2
- B 3
- C 4
- D 1

9. Simplify:

$$\frac{2x^3y^{-2}}{-8x^4y^{-1}}$$

10. Solve for x:

$$\frac{4}{5} = \frac{(x-3)}{10}$$