## Algebra Review #35 SHOW HOW YOU SOLVED EACH PROBLEM

Solve: (>

1.

$$(x + 9)(2x^2 - 5x - 1)$$

2. Solve:  $2(3x^2 + 6x + 3) - 4(x^2 + 8x - 1)$ 

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4. Find the mistake in the problem, circle it, and then fix the work:

 Joe Shmoe
 You

 -3(2x - 3) = 33 -3(2x - 3) = 33 

 -6x + 6 = 33 -6 - 6 

 -6x = 27 -6 

 -6 - 6 -6 

 x = -4.5 

 5. Find the equation of a line between the points (2,3) and (4,6).

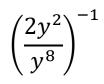
3. Draw a model to represent  $(2x - 2)^2$ .

6. Which set of lines would be parallel?

A y = 5x + 4 and  $y = -\frac{1}{5}x + 4$ B y = 5x + 4 and 2y = 10x + 6C y = 5x + 4 and  $y = \frac{1}{5}x + 6$ D y = 5x + 4 and 5y = -x + 4

Write the polynomial solution to  $(2x - 2)^2$ :

9. Simplify:



8. Write a system of equations to describe the situation below, solve and fill in the blanks.

An employee at a party store is assembling balloon bouquets. For a graduation party, he assembled 2 small balloon bouquets and 9 large balloon bouquets, which used a total of 192 balloons. Then, for a Father's Day celebration, he used 118 balloons to assemble 3 small balloon bouquets and 5 large balloon bouquets. How many balloons are in each bouquet? 10. Graph the inequality shown: y > x + 3

					6						
					5						
					4						
					3						
					2						
					1						
1											<u> </u>
<b>↓</b> -6	-5	-4	-3	-2	-1	1	2	3	4	5	6
<b>←</b> 6	-5	-4	-3	-2	-1 -2	1	2	3	4	5	6
-6	-5	-4	-3	-2		1	2	3	4	5	6
-6	-5	-4	-3	-2	-2	1	2	3	4	5	6
-6	-5	-4	-3	-2	-2 -3	1	2	3	4	5	6

The small balloon	bouquet	
uses	balloons	
and the large one	uses	balloons