Algebra Review #12 SHOW HOW YOU SOLVED EACH PROBLEM

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6 + 2(x - 3) = -8 - 2x	Given
6 + 2x - 6 = -8 - 2x	
6 - 6 + 2x = -8 - 2x	
0 = 0 + 2x = -0 - 2x	
0 + 2x = -8 - 2x	
2x = -8 - 2x	
4x = -8	
4X0	
	l
x = -2	

2. Solve using the order of operations. If x = -5 and $y = \frac{1}{2}$, then:

 $4y - x^3$

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

5(2+c) = 45 + 5c

NAME

4. Suzanne received 6 points for each correct question on a test. She also got a 4-point bonus problem correct. If she got a score of 82, how many problems did she get correct?

5. Solve the equation IN TWO DIFFERNENT WAYS (Hint: Use the distributive property on one, and divide first on the other):

104 = -4(x - 10)	104 = -4(x - 10)
For this problem, which way do you feel was	
the best way to solve? Why?	

6.

Translate the following into either algebraic expressions or verbal expressions:

The quotient of 4 and the square of a number

 $\sqrt[3]{x+9}$

7. What is the value of the following:

 $2\sqrt{150} - 3\sqrt{24}$

9. Solve for variable y:

$$8 = \frac{y - x}{2z}$$

8. Simplify the radical.

 $\sqrt{180r^3s^5}$

10. Solve for variable r

 $C = \pi r^2$