Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_

Teacher: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Math 8

 Cumulative Review #3.1

 **Show work for all questions for full credit**

**& write your answers on the lines provided!!!**

(*If you feel no work is needed you must explain your reasoning.)*

 1. \_\_\_\_\_\_\_\_\_\_\_\_\_

2. Which system of equations has no solution?

 A. y = 4x – 9 and y + 4x = 3

 B. y = 2x and 2y = x – 9

 C. y + x = 0 and y = x

 D. y = 3x + 7 and y – 3x = −2

 2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Is the point (−4, −5) on the graph of the line whose equation is y – 2x = 6?

 3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Six times a number decreased by seven is the same as four times the number increased by three. What is the number? [Only an algebraic solution will be accepted.]

 4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. Solve the following system of equations algebraically and check your answer.

 5x + y = 15

 3x + y = 11

 5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_