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

Teacher: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ CC Algebra

Cumulative Review #1.7

**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. On Thursday at 8 AM, the temperature is 25°F. By noon it rises 11 degrees, by 6 PM it drops 4 degrees, and by 8 AM on Friday it drops another 10 degrees. What is the change in temperature from 8 AM on Thursday to 8 AM on Friday?

A. −14 degrees C. 5 degrees

B. −3 degrees D. 22 degrees

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

2. The product of 4x2y2 and xy3 is

A. 4x2y5

B. 4x2y6

C. 4x3y5

D. 4x3y6

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. Evaluate a + (b – c)2 when a = 2, b = 3, and c = −6.

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

4. Identify the following properties:

a. 2x + 7x = (2 + 7)x

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

b. (x + 1) + 9 = x + (1 + 9)

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

5. Three times a number increased by six is at most 50 more than the number. Find the greatest integer value of the number. [Only an algebraic solution will be accepted.]

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