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

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

Cumulative Review # 2.9

**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. What is the domain of the following function?



1. $-1\leq x\leq 6$
2. $\left\{1, 2, 3, 4, 5\right\}$
3. $-4\leq x\leq 2$
4. $-4\leq y\leq 2$

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

2. Write a compound inequality that represents the following phrase.

 “All real numbers that are between –8 and 4 inclusive”

* 1. –8 < n ≤ 4 c. –8 ≤ n ≤ 4
	2. –8 < n < 4 d. –8 ≤ n < 4

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

3a. Karen makes $5 per hour babysitting and $12 per hour giving music lessons. One weekend, she

 worked a total of 18 hours and made $139. Write a system of equations to represent the situation.

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

 3b. Use the system you wrote in part a to find out how many hours did she spend babysitting & how many hours she spent giving music lessons.

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

4. Evaluate $2x^{3}+3x-1y$ when x = -2 and y = -3

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