<u>Name</u> :	/10	Instructor:
Date:		Class Time:

Unit 3 Module C Notes Sections 10.3 – 10.8

View the PowerPoint, Videos, or Textbook for Module 3C.

Vocabulary Fill in the blanks.

- 1. (Section 10.3) The _____ of 0 says that for any real number a, a+0=0+a=a
- 2. (Section 10.4) For any real numbers a and b _____ = a + (-b)
- 3. (Section 10.5) . Answer positive or negative
 - a. If we multiply two negative numbers, the product will be _____
 - b. If we multiply one positive number by one negative number, the product will be _____
- 4. (Section 10.6) Two numbers whose product is 1 are called ______, or , of each other.
- 5. (Section 10.7) Terms such as 5x and -4x whose variable factors are exactly the same, are called _____.
- 6. (Section 10.8) When using the order of operations to simplify an expression, first do any operations in ______, then ______ operations, then multiply or divide operations from ______ to _____, and finally _____ or _____ from left to right

Problems Show ALL steps.

1. (Sections 10.3 and 10.4) Add or subtract:

a.
$$-8.6+2.9$$

b.
$$(-42)+81+(-26)+18+(-31)$$
 c. $-10.2-(-6.5)$

c.
$$-10.2 - (-6.5)$$

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2. (Sections 10.3 and 10.4) If the temperature is now 28.5° F and it drops 36° F by tomorrow morning, what is the temperature tomorrow morning?

- 3. (Sections 10.5 and 10.6) Multiply or divide:
- b. (-2)(-5)(-7) c. $7(-9)\times 0\times 5$

4. (Section 10.6) During a chemical reaction, the temperature of a solution in a beaker decreased every minute by the same number of degrees. The temperature was at 71° F at 2:12 P.M. By 2:37 P.M., the temperature had dropped to -4° F. By how many degrees did it change each minute?

- 5. (Section 10.7) Factor the greatest common factor out of each term using the distributive law: 12xy - 15xz + 30x
- 6. (Section 10.8) Simplify:
 - a. $\frac{(15-5)-6^2}{9^2+3^2}$ express your answer as an integer or simplified fraction

b.
$$[9(x+5)-7]+[4(x-12)+9]$$