NAME _____ HW # _____

1) True/False: If **a** is a real number, then **-a** is always a negative number. Justify your response with an example.

2) Adam is scuba diving. He descends 5 feet below sea level. He descends the same distance 4 more times. What is Adam's final elevation? Use an integer expression to represent this situation.

3) The product of three integers is -3. Determine all the possible values of the three factors.

4) Evaluate the following:

a. $4(-3)$ b. $-12(-3)$ c. $5(-2)(-7)$

d. $-33 \div 11$ e. $\frac{-56}{14}$ f. $\frac{18}{0}$

5) Evaluate the following:

a. $(-4)^2$ b. -3^2 c. $(-1)^3$

6) Describe and correct the error in each question:

a. $(-2)(-7) = -14$ b. $-10^2 = 100$ c. $0 \div -5 = -5$

7) Find the next three numbers in the pattern: $7, -28, 112, -448$

8) Find the average of the integers: $3, -10, -2, 13, 11$