## Math 099 - Assignment 1

August 20, 2018

Show all work to receive full credit. Supply explanations when necessary. This assignment is worth 5 points.

1. Evaluate each expression. You may use a calculator, but think about, and discuss, the order of the operations.

(a) 
$$3 + 2 \cdot (-5) = 3 + (-10) \cdot = (-7)$$

(b) 
$$2.5 \times 8 + 7 \times 2 = 20 + 14 = 34$$

(c) 
$$(2-2)-2-2-[2\times(2-2)]$$
 =  $(3\times0)$  =  $-3-3=(-4)$ 

(d) 
$$9 \div 3^2 \cdot (-6) = 9 \div 9 \cdot (-6) = (-6) = -6$$

(e) 
$$\frac{|2-8|}{3-9} = \frac{6}{-6} = \frac{-1}{2}$$

(f) 
$$3.25 \times 7 - 5.2 \times 8.1 = 20.75 - 42.12 = (-19.37)$$

- 2. Refer back to each problem above, and state whether your answer is a natural number, whole number, integer, rational number, or real number.
  - (a) INTEGER
  - (b) NATurai
  - (c) INTEGER
    (d) INTEGER
    (e) INTEGER
- 3. Let x = 2.45. Evaluate  $3x^2 2x + 5$ .

$$3(9.45)^{9} - 3(9.45) + 5$$
  
=  $3(6.0035) - 3(9.45) + 5$   
=  $1/8.0075 - 4.9 + 5$  =  $1/8.1075$