## ACTIVITY 3

ECONOMICS 101 IN-CLASS ACTIVITY FALL 2017 – 15 MINUTES PLEASE COMPLETE THIS ACTIVITY ON YOUR OWN.

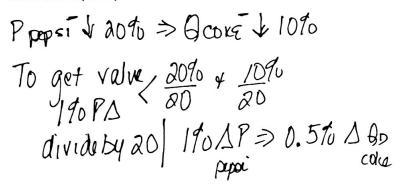
NAME SOLUTIONSET

## QUESTION 1

The price of Pepsi falls by 20 percent and the quantity consumed of Coke falls by 10 percent. The cross price elasticity of demand for Coke (with respect to the price of Pepsi) is

- a) 0.5 and Coke and Pepsi are substitutes
- b) -2 and Coke and Pepsi are substitutes
- c) 2 and Coke and Pepsi are complements
- d) -0.5 and Coke and Pepsi are substitutes
- e) None of the above

Select and explain your answer and be sure to use two well labeled graphs in your explanation.



Mean Prepsi influence
more pepsi t less coke
consumed.

## QUESTION 2

a) Calculate and explain the income elasticity of demand for pizza when income changes from \$1,000 to \$1,400 per month and the quantity demanded of pizza goes from 10 to 6. Provide the value and explain what the answer really means - including the type of good using economic concepts or principles in your explanation.

really means - including the type of good using economic concepts or principles in your explanation.

INCOME 
$$1500 \Rightarrow 1400$$
  $\Delta = 400$  fo  $\Delta \ln come = 400/1200 = 4.3333$ 
 $\Delta \ln come = \frac{1000}{900} = -4.5$ 
 $\Delta \ln come = \frac{1000}{900} = -5.5 = -1.5$ 
 $\Delta \ln come = \frac{1000}{900} = -5.5 = -1.5$ 
 $\Delta \ln come = \frac{1000}{900} = -5.5 = -1.5$ 
 $\Delta \ln come = -4/8 = -0.5$ 
 $\Delta \ln$ 

b) Calculate and explain the price elasticity of demand for pizza between prices of \$14 and \$12 per pizza using the midpoint method when quantity demanded of pizza changes from 6 to 7. Compute the value and explain your answer using economic concepts or principles.

answer using economic concepts or principles.  

$$P\Delta = 14 > 12$$
  $\Delta = 24$   $\Delta = 13$   $\Delta = 154$   
 $\Delta = 13$   $\Delta = 154$   
 $\Delta = 154$   
 $\Delta = 154$   
 $\Delta = 154$ 

P. Elasharty of = 
$$\frac{10\Delta BD}{90\Delta P} = \frac{.154}{.154} - 1$$
 Unit ARY ELASTICITY

No need to fut on Discount as no 1 Total Revenue.