Econ 102 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Summer 2013

Quiz #0

Please write all answers neatly and legibly.

1. Suppose that you are told that the point (8, 10) sits on a straight line. Furthermore you are told that every time the X value increases by 5 units the Y value decreases by 10 units. Write an equation in slope intercept form given this information. Show your work and explain the steps you used to find your answer.

2. In Mary’s econ class her first exam had a total of 40 points on it and she scored a 35 on this exam. Her second exam had a total of 60 points on it and she scored a 54 on this exam. Her final exam will have a total of 80 points. The two midterms are each worth 25% of her grade while the final is worth 50% of her grade where these weights are based on 100 point exams. If Mary needs a weighted average of 90 points on a 100 point scale to earn an A in the class, what score will she need to make on her final? Show how you found your answer the steps you took to get your answer.

3. You are given these two points that sit on a straight line that we will refer to as line 1: (X, Y) = (10, 10) and (20, 30). You are given two more points that sit on a straight line that we will refer to as line 2: (X, Y) = (-10, 0) and (20, -30). Find the (X, Y) where line 1 and line 2 intersect given this information. Show your work.

4. Calculate the numeric values or simplify the following:

 a. Given the following information find the value of X.

(1/2)X + 20 = (1/4)X – 12

 b. Given the following information simplify this expression:

 2x(x + x + x)/4x =

 c. Given the following information simplify this expression:

 ((1/2)X + (1/4)Y)/2 =

d. Joelle spent $25.00 at the restaurant Saturday night on her meal. She decided to tip 20% for the service she received. What was the amount of the tip she paid?