Economics 101 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Summer 2013

Quiz #0

Please write your answers neatly and legibly.

1. (Checking on your facility with percentages.) Joe initially has $100 that he places in a savings account at his local bank. During the first year he earns 10% on this account. (That is, at the end of the year the amount in his savings account will be 10% greater than the amount he had at the beginning of the year.) At the end of the second year he earns 5% on this account for the year. At the end of the second year what is the level of Joe’s saving. Please show how you calculated your answer.
2. Suppose you are given the line Y = 100 – 2X where Y is the variable measured on the vertical axis and X is the variable measured on the horizontal axis. You are then told that something happens to this line such that at every Y value the X value is now 50 units greater. Write the equation for this new line. Show how you found this equation.
3. Suppose you are told that the points (X, Y) = (10, 20) and (30, 10) sit on the same straight line. Write an equation for this line in slope intercept form given this information.

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1. Suppose you are told that the points (X, Y) = (10, 20) and (20, 10) sit on the same straight line. Determine whether the following points sit on this line, sit below the line, or set above the line.
   1. (X, Y) = (10, 10) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. (X, Y) = (50, -20)
   3. (X, Y) = (15, 18)
   4. (X, Y) = (-960, 1000)