

MTH 65 – Graded Homework 3

Due: 2:30 pm, January 12, 2011

Name _____

You may work on this assignment with your classmates or anybody else you please. You may get help from a tutor or even the instructor. What you may not do is simply copy somebody else's work – that completely obviates the purpose of the assignment. If you forget to complete the assignment before it is due, do not simply copy someone else's paper and turn that in ... that is not "working together," that is taking credit for somebody else's work.

Problem 1

For each system write a sentence or two that describes the system. Your sentence(s) should include the word "consistent" or the word "inconsistent" and should also include the word "dependent" or the word "independent." **Please note, I am not asking you to find and state the solution to the system.**

a.
$$\begin{cases} y = 2x - 9 \\ y = 5x + 4 \end{cases}$$

b.
$$\begin{cases} y = -7x - 1 \\ y = -7x + 2 \end{cases}$$

Problem 2

Branch Palin has a college fund divided between two accounts. At the start of 2008 Branch had a total of \$12,000 invested between the two accounts. One account earned a total of 3% interest during 2008 and the other account earned a total of 7% interest during 2008. All told, the two accounts earned a total of \$646.24 in interest over 2008. How much did Branch have invested in each account at the start of 2008?