BONUS QUIZ 1

Name: _____

Date: _____

Friday February 1 Ron Buckmire

Topic : Analytic Geometry with Planes and Lines

The idea behind this quiz is for you to indicate your advanced understanding of the material from Section 1.1, 1.2 and 1.3.

Reality Check:

EXPECTED SCORE : ____/10

ACTUAL SCORE : ____/10

Instructions:

- 1. Please look for a hint on this quiz posted to faculty.oxy.edu/ron/math/214/08/
- 2. You may use the book or any of your class notes. You must work alone.
- 3. If you use your own paper, please staple it to the quiz before coming to class. If you don't have a stapler, buy one.
- 4. After completing the quiz, sign the pledge below stating on your honor that you have adhered to these rules.
- 5. Your solutions must have enough details such that an impartial observer can read your work and determine HOW you came up with your solution.
- 6. Relax and enjoy...
- 7. This quiz is due on Monday February 4, in class. NO LATE QUIZZES WILL BE ACCEPTED.

Pledge: I, ______, pledge my honor as a human being and Occidental student, that I have followed all the rules above to the letter and in spirit.

Linear Systems

EXPLAIN YOUR ANSWERS & SHOW ALL WORK

1. (a) Show that the plane given by 4x - y - z = 6 and the line given by x = t, y = 1 + 2t, z = 2 + 3t intersect.

(b) Find the acute angle of intersection between the line and the plane given in part (a).