BONUS Quiz $\mathbf{2}$

Multivariable Calculus

Name: _____

Date:	
Time Begun: .	
Time Ended:	

Friday September 23 Ron Buckmire

Topic : Vector Cross-Product and Planes

The idea behind this bonus quiz is to provide you with an opportunity to illustrate your understanding of the cross-product and its connection to the equation of planes.

Reality Check:

EXPECTED SCORE : ____/10

ACTUAL SCORE : ____/10

Instructions:

- 0. Please look for a hint on this quiz posted to faculty.oxy.edu/ron/math/212/05/.
- 1. Once you open the quiz, you have **30 minutes** to complete, please record your start time and end time at the top of this sheet.
- 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 September 26, 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.

Math 212 Spring 2005

1. Using the cross product, find an equation for the plane containing the points P = (1, -1, 2), Q = (-1, 2, 3) and R = (-2, 0, -1) in the form Ax + By + Cz + D = 0. Find the coordinates of a fourth point which you are sure also lies on this plane.

1. Find the distance between the point A = (2, -1, 3) and the plane 3x + y - 2z = 4.