BONUS Quiz 2

Multivariable Calculus

Name:	<u> </u>
Date:	Friday February 3 Ron Buckmire
Topic: Planes	
The idea behind this bonus quiz is to provide you with planes and lines in n -dimensional space.	h an opportunity to illustrate your understanding of
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 minut end time at the top of this sheet.	es to complete, please record your start time and
2. You may use the book or any of your class r	notes. You must work alone.
3. If you use your own paper, please staple it have a stapler, buy one.	to the quiz before coming to class. If you don't
4. After completing the quiz, sign the pledge be to these rules.	low stating on your honor that you have adhered
5. Your solutions must have enough details suc and determine HOW you came up with your	h that an impartial observer can read your work solution.
6. Relax and enjoy	
7. This quiz is due on Monday February ACCEPTED.	y 6, in class. NO LATE QUIZZES WILL BE
Pledge: I,, pledge my that I have followed all the rules above to the letter.	whonor as a human being and Occidental student, er and in spirit.

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.

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