Quiz 1	Multivariable Calculus
Name:	
Date: Time Begun: Time Ended:	
Topic: Vectors	
The idea behind this quiz is to provide you vectors algebraically	with an opportunity to illustrate your ability to manipulate
Reality Check:	
EXPECTED SCORE :/10	ACTUAL SCORE :/10
Instructions:	
0. Please look for a hint on this quiz p	osted to faculty.oxy.edu/ron/math/212/05/
1. Once you open the quiz, you have 30 end time at the top of this sheet.	O minutes to complete, please record your start time and
2. You may use the book or any of you	ur class notes. You must work alone.
v v 1 1 7 1	taple it to the quiz before coming to class. If you don't sheets to quizzes will not be graded.
4. After completing the quiz, sign the p to these rules.	bledge below stating on your honor that you have adhered
5. Your solutions must have enough de and determine HOW you came up v	etails such that an impartial observer can read your work with your solution.
6. Relax and enjoy	
7. This quiz is due on Monday J ACCEPTED.	anuary 30, in class. NO LATE QUIZZES WILL BE
Pledge: I,	ledge my honor as a human being and Occidental student, the letter and in spirit.

Consider the position vectors \mathbf{A} (-1,0,2,2) and \mathbf{B} (2,2,0,2).

1. (2 points) Compute A - 3B.

2. (2 points) Find the coordinates of the midpoint between \mathbf{A} (-1,0,2,2) and \mathbf{B} (2,2,0,2).

3. (2 points) Write down the vector equation of the line joining A and B.

4. (4 points) Is the point (4, 4, -2, 2) on the same line joining **A** and **B**? How do you know? **Explain your answer!**