

Name: _____
Student ID: _____

Quiz 9

This quiz is graded out of 10 marks. No books, calculators, notes or cell phones are allowed. You must show all your work, the correct answer is worth 1 mark the remaining marks are given for the work. If you need more space for your answer use the back of the page.

Question 1. (5 marks) #5.21 Find the point of the plane which is closest to the point P .

$$5x - y + z = 14 \text{ and } P(-2, 3, 0)$$

Question 2. (5 marks) #4.7a Determine a vector equation of the line of intersection of the given planes.

$$x + 3y - z = 5 \text{ and } 2x - 5y + z = 7$$