awson College: Linear Algebra: 201-105-DW: Fall 2009
Name:
Student ID:
Assignment 2
his assignment is graded out of 10 marks. You must show all your work, the correct answer is worth 1 mark the remaining marks e given for the work. If you need more space for your answer use the back of the page.

**Question 1.** (1 mark) Write the equation of the plane -3x + 2y - 7z = 21 in parametric form.

**Question 2.** (1 mark) Write the equation of the plane (x, y, z) = (2, -1, 4) + s(3, 1, 3) + t(-2, -1, 2) where  $s, t \in \mathbb{R}$  in general form.

**Question 3.** (3 marks) Find the distance between the point P(3,4,5) and the plane (x,y,z) = (1,0,3) + s(2,-1,0) + t(3,0,-1) where  $s, t \in \mathbb{R}$ .

