Name: _____
Student ID: _____

Quiz 8

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)* §3.3 #37 Use projections to find the distance between the given parallel planes.

$2x-y-z=5$ and $-4x+2y+2z=12$

Question 2.

a. *(2 marks)* §3.2 #7 Let $\vec{v}=(-2,3,0,6)$. Find all scalars k such that $||kv||=5$

b. *(3 marks)* §3.2 #24c Find the radian measure of the angle θ (with $0\leq\theta\leq\pi$) between $\vec{u}=(-1,1,0)$ and $\vec{v}=(0,-1,1)$