Last Name: _____

First Name: _____

Student ID: _____

Quiz 9 (A)

Question 1. *(5 marks)* Find the equation of the plane that passes through the points $P_1(0,2,-1)$, $P_2(3,2,5)$, and $P_3(4,-1,2)$.

Question 2. *(2 marks)* Find the equations of the line that passes through the point $P(2,0,-1)$ and is parallel to the vector $\vec{\mathbf{v}} = (14, -\frac{35}{3}, 7)$.

Question 3. *(3 marks)* Are the plane found in question 1 and the line found in question 2 perpendicular, parallel or neither?