Dawson College: **Linear Algebra**: 201-105-05-S3: Fall 2012

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. §3.1 #10b *(2 marks)* Find the terminal point of the vector that is equivalent to $\mathbf{u} = (1,1,3)$ and whose initial point is $A(0,2,0)$.

Question 2. §3.1 #22c *(3 marks)* For what value(s) of t, if any, is the given vector parallel to $\mathbf{u} = (4,-1)$?

$\mathbf{v} = (1,t^2)$

Question 3. §3.2 #27 *(5 marks)* Find the cosine of the angle θ between $\mathbf{u} = (1,-5,4)$ and $\mathbf{v} = (3,3,3)$