Dawson College:	Linear Algebra	SCIENCE): 2	201-NYC-05-	S7: Fall 2015

Name:	·
Student ID:	

Quiz 7

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. §3.2 TF Determine whether the statement is true or false, and justify your answer.

e. (3 marks) If $||\vec{u}|| = 2$, $||\vec{v}|| = 1$, and $\vec{u} \cdot \vec{v} = 1$, then the angle between \vec{u} and \vec{v} is $\pi/3$ radians.

g. (2 marks) If $\vec{u} \cdot \vec{v} = \vec{u} \cdot \vec{w}$, then $\vec{v} = \vec{w}$.

Question 2. §3.3 #31 (5 marks) Using projections, find the distance between the point and the line.

(2,-5); y = -4x+2