Dawson College:	Linear Algebra	(SCIENCE)	: 201-NYC-05-S4:	Fall 2014
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Name:	
Student ID:	

Quiz 12

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) §4.3 #15 Show that if $\{\vec{v}_1, \vec{v}_2\}$ is linearly independent and \vec{v}_3 does not lie in span $\{\vec{v}_1, \vec{v}_2\}$, then $\{\vec{v}_1, \vec{v}_2, \vec{v}_3\}$ is linearly independent.

Question 2. (5 marks) §4.4 #4d Is the following a basis for P_2 ?

$$\{-4+x+3x^2,6+5x+2x^2,8+4x+x^2\}$$