Dawson College:	Linear	Algebra	(SCIENCE)): 201-N	VYC-05-S5:	Winter 2017

Name:		

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. §4.2 #11b (3 marks) Determine whether the given vectors span \mathbb{R}^3 . $\vec{v}_1 = (2, -1, 3), \vec{v}_2 = (4, 1, 2), \vec{v}_3 = (8, -1, 8)$.

Question 2. §4.3 #10 (5 marks) Show that if $\{\vec{v}_1, \vec{v}_2\}$ is linearly independent and \vec{v}_3 does not lie span($\{\vec{v}_1, \vec{v}_2\}$), then $\{\vec{v}_1, \vec{v}_2, \vec{v}_3\}$ is linearly independent.