Dawson College:	Linear Als	gebra ((SCIENCE):	201-NY	C-05-S6:	Fall 2015
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Name:	
Student ID:	

Quiz 9

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. §4.1 #11 Determine whether each set equipped with the given operations is a vector space. For those that are not vector spaces identify the vector space axioms that fail.

The set of all pairs of real numbers of the form (1, x) with the operations

$$(1, y) + (1, y') = (1, y + y')$$
 and $k(1, y) = (1, ky)$