Dawson	College:	Linear	Algebra	(SCIENCE)	· 201-N	VC-05-S2	Winter 2018
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## Quiz 7

This quiz is graded out of 8 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.** §1.7 #47

Prove: If  $A^T A = A$ , then A is symmetric and  $A = A^2$ .

**Question 2.** Problems for 201-NYC-05 Science #2.2 Let *B* be a  $3 \times 3$  matrix where det(B) = 3. Find  $det(2B + B^2adj(B))$ .