Dawson College: Li	inear Algebra:	201-105-DW-S04:	Fall 2009
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Name:	
Student ID:	

## Quiz 1

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. Consider the matrices:

$$A = \begin{bmatrix} 1 & 4 & -1 \\ 2 & 0 & 0 \\ 0 & 3 & 3 \end{bmatrix}, B = \begin{bmatrix} 1 & -1 & 6 \\ 3 & 0 & 7 \\ 2 & 11 & 1 \end{bmatrix}, C = \begin{bmatrix} 2 & -1 \\ 1 & 2 \\ 0 & 4 \end{bmatrix}, D = \begin{bmatrix} 3 & 0 & 1 \\ 2 & -1 & 2 \end{bmatrix}.$$

Compute the following (where possible).

- a. (1 mark) B A
- b. (1 mark) D C
- c. (1 mark) BD
- d.  $(3 \text{ marks}) 3 \operatorname{tr}(2CC^t)$
- e.  $(4 \text{ marks}) CD + I A^2$