Dawson	College:	Linear	Algebra:	201-105	-05-S3:	Fall 2012
Dungon	Conce.	Lincui	ziigeniu.	201 103	05 55.	1 411 2012

Name:	
Student ID:	

Quiz 4

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. §1.4 #51a. (2 marks) Show that if A is invertible and AB = AC, then B = C

Question 2. $\S1.4 \#53a$. (3 marks) Show that if A, B, and A + B are invertible matrices with the same size then

$$A(A^{-1}+B^{-1})B(A+B)^{-1}=I$$

Question 3. $\S 1.4 \# 17 \ (5 \ marks)$ Use the given information to find A.

$$(I+2A)^{-1} = \begin{bmatrix} -1 & 2\\ 4 & 5 \end{bmatrix}$$