

**MATH 205A,B - LINEAR ALGEBRA
FALL 2015**

QUIZ 1

NAME:

Section:(Circle one) A(8am) B(9 : 30am)

Show ALL your work CAREFULLY.

Consider the following matrix

$$A = \begin{bmatrix} 1 & -2 & 3 & 2 \\ -2 & 2 & 0 & 4 \\ 3 & -6 & 9 & 6 \end{bmatrix}.$$

(a) Find the reduced row echelon form of the matrix A . Make sure you show the row operations you use.

(b) Find the general solutions of the system whose augmented matrix is given by A .