

**MATH 205A,B - LINEAR ALGEBRA  
WINTER 2013**

QUIZ 1

**NAME:**

**Section:**(Circle one)    A            B

**Show ALL your work CAREFULLY.**

Consider the following matrix

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

(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  $A$ .