

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

QUIZ 6

NAME:

Section:(Circle one) A(8 : 00) B(9 : 30)

Show ALL your work CAREFULLY.

Consider the matrix

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

(a) Find an explicit description of the null space $\text{Nul}A$, by listing vectors that span the null space.

(b) Find a basis for the column space $\text{Col}A$.