

Attendance Quiz for Lecture 3

NAME: (print!) _____ Section: _____

E-MAIL ADDRESS: (print!) _____

1. Perform the indicated elementary operation on

$$A = \begin{bmatrix} 2 & -3 & 1 \\ -4 & 5 & 0 \\ 3 & -1 & 2 \\ 4 & 11 & -2 \end{bmatrix}$$

(i) Interchange rows 2 and 4 .

(ii) Multiply row 3 by -3 .

2. The *reduced row echelon form* of a certain system of linear equations is:

$$\begin{bmatrix} 1 & -2 & 0 & 4 \\ 0 & 0 & 1 & 3 \\ 0 & 0 & 0 & 0 \end{bmatrix} .$$

Determine whether this system is consistent, and if so, find its general solution. In addition, write the solution in *vector form*.

3. The *reduced row echelon form* of a certain system of linear equations is:

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

Determine whether this system is consistent, and if so, find its general solution. In addition, write the solution in *vector form*.