

**Attendance Quiz for Oct. 25, 2010**

**NAME:** (print!) \_\_\_\_\_ **Section:** \_\_\_\_\_

**E-MAIL ADDRESS:** (print!) \_\_\_\_\_

1. Find a generating set for the following subspace

$$\left\{ \begin{bmatrix} r - s + 3t \\ 2r - t \\ -r + 3s + 2t \\ -2r + s + t \end{bmatrix} \in R^4 : r, s, \text{ and } t, \text{ are scalars} \right\}$$

2. Find a generating set for the null space of the matrix

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