## Math 205 Quiz #8

1. Find the eigenvalues and eigenspaces for the following matrix

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

$$\lambda_1 = l$$

$$\lambda_2 = 2$$

$$\frac{\lambda = 1}{A - \lambda I} = \begin{bmatrix} 0 & 1 \\ 0 & 1 \end{bmatrix}$$

$$\frac{\lambda_2=2}{A-\lambda I=\begin{bmatrix} -1 & 1 \\ 0 & 0 \end{bmatrix}}$$