MATH 260, Homework 10, Spring '14
Due: April 11, 2014
Honor Code: **Name:**

1) Give all of the eigenspaces for each matrix. Give the algebraic and geometric multiplicity associated with each eigenvalue.

a) (14 pts) $\begin{bmatrix} 5 & 1 \\ -1 & 3 \end{bmatrix}$

b) (14 pts) $\begin{bmatrix} 5 & 1 & 0 & 0 \\ 0 & 5 & 0 & 0 \\ 0 & 0 & 5 & 0 \\ 0 & 0 & 0 & 3 \end{bmatrix}$