

MATH 260, Homework 11, Fall '14
Due: November 7, 2014 at 2:20 PM
Honor Code:

Name:
Section:

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

a) (15 pts) $\begin{bmatrix} 5 & 1 \\ -1 & 3 \end{bmatrix}$

b) (15 pts)
$$\begin{bmatrix} 5 & 1 & 0 & 0 \\ 0 & 5 & 0 & 0 \\ 0 & 0 & 5 & 0 \\ 0 & 0 & 0 & 3 \end{bmatrix}$$