

# Homework 6

Linear Algebra, Dave Bayer, due April 1, 2014

Name: \_\_\_\_\_ Uni: \_\_\_\_\_

[1]	[2]	[3]	Total

If you need more than one page for a problem, clearly indicate on each page where to look next for your work.

[1] Find the inverse of the matrix

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

[2] Find the eigenvalues and corresponding eigenvectors of the matrix

$$A = \begin{bmatrix} -2 & 2 \\ -2 & 3 \end{bmatrix}$$

[3] Find the eigenvalues and corresponding eigenvectors of the matrix

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