

Math 3280 Worksheet 14: Eigenvectors and values.

Group members (1 to 3): _____

(1) Find the eigenvalues and eigenvectors for the matrix

$$\begin{pmatrix} 8 & -6 \\ 3 & -1 \end{pmatrix}$$

(2) Find the eigenvalues and eigenvectors for the matrix

$$A = \begin{pmatrix} 1 & a \\ 4a & 1 \end{pmatrix}$$