

MATH 134A Review: Eigenvalues and Eigenvectors

1. Find one eigenvalue for the following matrix.

$$A = \begin{pmatrix} 1 & 3 \\ 2 & 2 \end{pmatrix}$$

2. This problem again uses the A matrix from the previous exercise. Let λ be the eigenvalue you found from the previous exercise. Find a basis for the corresponding eigenspace.