

MATH 105A and 110A Review: Eigenvalues and diagonalization

1. Diagonalize the following matrix if possible:

$$A = \begin{bmatrix} 2 & 3 \\ 0 & 2 \end{bmatrix}$$

2. Diagonalize the following matrix if possible:

$$A = \begin{bmatrix} 1 & 0 & 0 \\ 0 & 3 & 3 \\ 0 & 0 & 1 \end{bmatrix}.$$