

Classwork 14

Calculate eigenvalues and eigenvectors of the matrix

$$A = \begin{pmatrix} 1 & 0 & 1 \\ 0 & 1 & 0 \\ 1 & 0 & 1 \end{pmatrix}, \quad A \hat{V}_i = \lambda_i \hat{V}_i$$

Normalisation:

$$\hat{V}_i \cdot \hat{V}_i = 1$$

Eigenvalues

Eigenvectors