

11

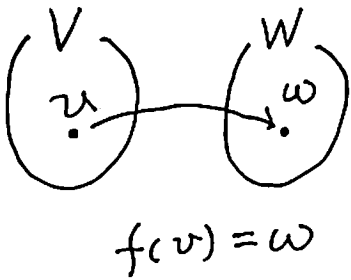
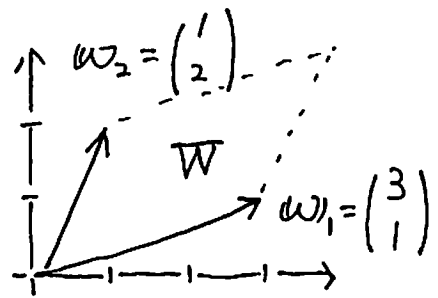
。 写像

$v_2 = \begin{pmatrix} \end{pmatrix}$

$v_1 = \begin{pmatrix} \end{pmatrix}$

\bar{V}

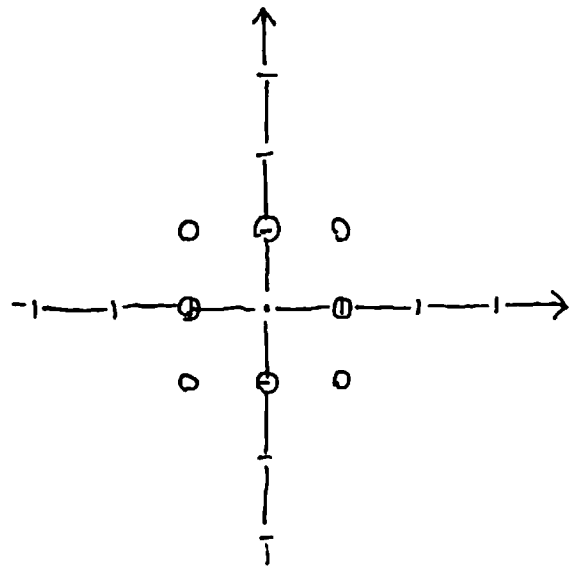
$$A = \begin{pmatrix} & \end{pmatrix}$$



$$\begin{pmatrix} a & b \\ c & d \end{pmatrix} \begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} \underline{\hspace{2cm}} \\ \underline{\hspace{2cm}} \end{pmatrix}$$

$$A|\psi\rangle = \lambda|\psi\rangle$$

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



$$|A - \lambda E|$$

$$= \left| \begin{pmatrix} 2 & 1 \\ 1 & 2 \end{pmatrix} - \lambda \begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix} \right|$$

- 固有ベクトル (Eigen Vectors)

$$\lambda_1 = \underline{\quad\quad}$$

$$\lambda_2 = \underline{\underline{\quad\quad}}$$

$$\lambda = \underline{\quad}, \underline{\quad}$$

$$v_i = \begin{pmatrix} \end{pmatrix}$$

$$v_2 = \begin{pmatrix} \\ \end{pmatrix}$$

檢算？