

$$\begin{array}{cc} 0 & 1 \\ 1 & 0 \end{array} \quad \begin{pmatrix} 0 & -i \\ i & 0 \end{pmatrix}$$

$$\begin{bmatrix} 0 & -1 \\ 1 & 0 \end{bmatrix} \quad \left\{ \begin{array}{cc} 1 & 0 \\ 0 & -1 \end{array} \right\}$$

$$\begin{vmatrix} a & b \\ c & d \end{vmatrix} \quad \left\| \begin{array}{cc} i & 0 \\ 0 & -i \end{array} \right\|$$