$$\begin{matrix} 0 & 1 \\ 1 & 0 \end{matrix}$$

$$\begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix}$$

$$\begin{bmatrix} 0 & 1 \\ 1 & 0 \end{bmatrix}$$

$$\begin{Bmatrix} 0 & 1 \\ 1 & 0 \end{Bmatrix}$$

$$\begin{vmatrix} 0 & 1 \\ 1 & 0 \end{vmatrix}$$

$$\begin{Vmatrix} 0 & 1 \\ 1 & 0 \end{Vmatrix}$$

$$A = \begin{pmatrix} a_{11}^2 & a_{12}^2 & a_{13}^2 \\ 0 & a_{22} & a_{23} \\ 0 & 0 & a_{33} \end{pmatrix}$$

$$A = \begin{bmatrix} a_{11} & \dots & a_{1n} \\ & \ddots & \vdots \\ 0 & & a_{nn} \end{bmatrix}$$

$$\begin{pmatrix} 1 & 0 & & \\ 0 & 1 & & \\ & & 1 & 0 \\ 0 & & 0 & -1 \end{pmatrix}$$

复数 $z = (x, y)$ 也可以用矩阵 $\left(\begin{smallmatrix} x & -y \\ y & x \end{smallmatrix}\right)$

$$\begin{pmatrix} a_{11} & a_{12} & \dots & a_{1n} \\ & a_{22} & \dots & a_{2n} \\ & 0 & \ddots & \vdots \\ & & & a_{nn} \end{pmatrix}$$