

$$\begin{array}{cc} 0 & 1 \\ 1 & 0 \end{array} \qquad \begin{pmatrix} 0 & 1 \\ 1 & 0 \end{pmatrix} \qquad \begin{bmatrix} 0 & 1 \\ 1 & 0 \end{bmatrix} \qquad \left\{ \begin{array}{cc} 0 & 1 \\ 1 & 0 \end{array} \right\} \qquad \left| \begin{array}{cc} 0 & 1 \\ 1 & 0 \end{array} \right| \qquad \left\| \begin{array}{cc} 0 & 1 \\ 1 & 0 \end{array} \right\|$$

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

$$a=\begin{bmatrix} a_{11} & \cdots & a_{1n} \\ & \ddots & \vdots \\ 0 & & a_{nn} \end{bmatrix}_{n\times n}$$

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

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

$$\begin{pmatrix} 1 & \frac{1}{12} & \cdots & \frac{1}{1n} \\ \cdots & \cdots & \cdots & \cdots \\ m & \frac{1}{m2} & \cdots & \frac{1}{mn} \end{pmatrix}$$

复数 $z=(x,y)$ 也可用矩阵 $\begin{pmatrix} x & -y \\ y & x \end{pmatrix}$ 来表示。

$$\frac{\frac{1}{2}}{0}\bigg|\frac{0}{-\frac{a}{bc}}$$