$$\begin{matrix}0 & 1\\ 1 & 1\end{matrix}\begin{pmatrix}0 & 1\\ 1 & 0\end{pmatrix}\begin{bmatrix}1 & 2\\ 4 & 3\end{bmatrix}\begin{Bmatrix}1 & 4\\ 2 & 8\end{Bmatrix}\begin{vmatrix}2 & 4\\ 6 & 8\end{vmatrix}\begin{Vmatrix}5 & 10\\ 20 & 10\end{Vmatrix}$$

$$A=\begin{pmatrix}a_{11}^{2} & a_{12}^{2} & a_{452}^{567}\\ 0 & a_{22} & a_{23}\\ 0 & 0 & a_{33}\end{pmatrix}$$

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

$$\begin{pmatrix}\begin{pmatrix}1 & 0\\ 0 & 1\end{pmatrix} & \begin{pmatrix}5 & 6\\ 7 & 8\end{pmatrix}\\ \begin{pmatrix}7 & 8\\ 9 & 10\end{pmatrix} & \begin{pmatrix}11 & 12\\ 13 & 14\end{pmatrix}\end{pmatrix}_{n\times n}$$

$$\begin{pmatrix}\begin{pmatrix}1 & 0\\ 0 & 1\end{pmatrix} & 0\\ 0 & \begin{pmatrix}11 & 12\\ 13 & 14\end{pmatrix}\end{pmatrix}_{n\times n}$$

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

$$\begin{pmatrix}1 & \frac{1}{2} & \cdots & \frac{1}{n}\\ \cdots & \cdots & \cdots & \cdots\\ m & \frac{m}{2} & \cdots & \frac{m}{n}\end{pmatrix}$$

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

$$\begin{array}{c|c}\frac{1}{2} & 0\\ \hline 0 & -\frac{a}{bc}\end{array}$$