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

$$\begin{pmatrix} 2 & i \\ 3 & 5 \end{pmatrix}$$

$$\begin{bmatrix} 8 & i \\ 3 & 678 \end{bmatrix}$$

$$\begin{Bmatrix} 8 & i & t \\ 33 & 678 & y \end{Bmatrix}$$

$$\begin{vmatrix} 8 & -5i \\ 3 & 68 \end{vmatrix}$$

$$\begin{Vmatrix} 2 & -5i \\ -i & 64 \end{Vmatrix}$$

$$B = \begin{bmatrix} 2 & 45 & b_{23} \\ 34 & a_4 & b_1 \\ 23 & 90 & 3 \end{bmatrix}$$

$$A = \begin{pmatrix} a_1 & \dots & a_{1n} \\ & \ddots & \vdots \\ 0 & & a_{nn} \end{pmatrix}_{n \times n}$$

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

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

$$\begin{bmatrix} 2 & 45 & b_{23} \\ 34 & a_4 & b_1 \\ \dots\dots\dots\dots \\ 23 & 90 & 3 \end{bmatrix}$$

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

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