

$$(a+b)=(b+a)$$

(1)

1 希腊字母

α
 β
 γ
 Γ
 Δ
 Θ
 Π
 Ω
 $\alpha^3+\beta^2+\gamma^2$

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

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

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

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

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

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

复数 $Z = (x, y)$ 也可以用矩阵 $\begin{pmatrix} x & -y \\ y & x \end{pmatrix}$

$$\frac{1}{2} \left| \begin{array}{c} 0 \\ \frac{x}{y} \end{array} \right.$$

$$a+\alpha=\frac{s}{y}+1 \tag{2}$$

$$g+d=f(a) \tag{3}$$

$$\tag{4}$$

$$x=t+\cos t+1 \tag{5}$$

$$y=2\sin t \tag{6}$$

$$x=t$$

$$x=\cos t$$

$$x=t$$

$$y=2t$$

$$y=\sin(t+1)$$

$$y=\sin t$$

$$\begin{aligned}\cos 2x &= \cos^2 x - \sin^2 x \\ &= x \cos^2 x - 1\end{aligned} \tag{7}$$

$$D(x)=\begin{cases}1, & \text{如果}x\in\mathbb{Q}\\0, & \text{if}x\in\mathbb{R}\setminus\mathbb{Q}\end{cases} \tag{8}$$