

$$\sum_{i=1}^n a_i = 1 \qquad \prod_{j=1}^n b_j = 1$$

$$\sum_{\substack{0<i<n\\0<j<m}}p_{ij}=\prod_{\substack{i\in I\\1<j<m}}q_{ij}$$

$$\max_{i>1}^x\quad \max_{x>0}^xxyz\quad \lim_{x\rightarrow\infty}$$

$$\mathbf{A}=\left(\begin{array}{ccc} x_{11} & x_{12} & \cdots \\ x_{21} & x_{22} & \cdots \\ \vdots & \vdots & \ddots \end{array}\right)$$

$$\begin{array}{ccc} 0 & 1 & 2 \\ 1 & 0 & 2 \\ 3 & 2 & 1 \end{array}$$

$$\begin{pmatrix} 100 & 1 & 2 \\ 1 & 0 & 2 \\ 3 & 2 & 1 \end{pmatrix}$$

$$\begin{bmatrix} 0 & 1 & 2 \\ 1 & 0 & 2 \\ 3 & 2 & 1 \end{bmatrix}$$

$$\left\{\begin{array}{ccc} 0 & 1 & 2 \\ 1 & 0 & 2 \\ 3 & 2 & 1 \end{array}\right\}$$

$$\left|\begin{array}{ccc} 0 & 1 & 2 \\ 1 & 0 & 2 \\ 3 & 2 & 1 \end{array}\right|$$

$$\left\| \begin{array}{ccc} 0 & 1 & 2 \\ 1 & 0 & 2 \\ 3 & 2 & 1 \end{array} \right\|$$

$$\begin{pmatrix} 100 & 1 & 2 \\ & 1 & 0 & 2 \\ & 3 & 2 & 1 \end{pmatrix}$$

$$\mathbf{H} = \begin{bmatrix} \frac{\partial^2 f}{\partial x^2} & \frac{\partial^2 f}{\partial x \partial y} \\ \frac{\partial^2 f}{\partial x \partial y} & \frac{\partial^2 f}{\partial y^2} \end{bmatrix}$$

矩阵 $\begin{pmatrix} x & -y \\ y & x \end{pmatrix}$ 可以显示在行内。

$$\begin{matrix} & 1 & 2 \\ \begin{matrix} 1 \\ 2 \end{matrix} & \begin{pmatrix} A & B \\ C & D \end{pmatrix} \end{matrix}$$