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

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

$$\max_{i>1}^{x} \quad x\overset{x}{\underset{x>0}{y}}z \quad \lim_{x \to \infty}$$

$$\mathbf{A} = \begin{pmatrix} x_{11} & x_{12} & \cdots \\ x_{21} & x_{22} & \cdots \\ \vdots & \vdots & \ddots \end{pmatrix}$$

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

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

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

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

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

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

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

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

1