

Chapter 1

intro

$$\left. \begin{array}{lcl} y & = & c \\ y & = & cx+d \\ y & = & bx^2+cx+b \end{array} \right\}$$

$$(a.0) \qquad \left. \begin{array}{lcl} y & = & c \\ y & = & cx+d \\ y & = & bx^2+cx+b \end{array} \right\}$$

$$\sum_{\substack{0\leqslant i\\ 0<j< n}}P(i,j) \tag{1.1}$$

$$\sum_{\substack{0\leqslant i\\ 0<j< n}}P(i,j) \tag{1.2}$$

$$\sqrt{2}<\sqrt[3]{3}$$

$$\sum_{k=1}^n, \int_a^b$$

$$\int_a^b$$

$$\widehat{ab}+\widehat{cdef}=\widetilde{xyz}$$

$$\overline{abc...def}$$

$$\underline{abc...def}$$

$$\overbrace{abc...def}^{132}$$

$$\underbrace{abc...def}$$

$$\sum_{i=1}, \sum_{i=1}^n$$

$$\prod_{i=1}, \prod_{i=1}^n$$

$$\operatorname{argmin}_{0 \leq j \leq k-1}$$

$$\sum_{\substack{0 < i < n \\ 0 < j < n}} A_{ij}$$

Chapter 2

intro1

2.1 matrix

$$\begin{pmatrix} 1 & 0 \\ 0 & -1 \end{pmatrix} \begin{Bmatrix} 1 & 0 \\ 0 & -1 \end{Bmatrix} \quad (2.1)$$

$$\begin{bmatrix} 1 & 0 \\ 0 & -1 \end{bmatrix} \left\| \begin{bmatrix} 1 & 0 \\ 0 & -1 \end{bmatrix} \right\| \begin{bmatrix} 1 & 0 \\ 0 & -1 \end{bmatrix} \quad (2.2)$$

$$\mathbf{A}_{m,n} = \begin{pmatrix} a_{11} & \dots & a_{1n} \\ \vdots & \ddots & \vdots \\ a_{m1} & \dots & a_{mn} \end{pmatrix} \quad (2.3)$$

$$A = \begin{bmatrix} a_{11} & a_{12} & \dots & a_{1n} \\ a_{21} & \dots & \dots & \dots \\ \dots & \dots & \dots & \dots \\ a_{m1} & a_{m2} & \dots & a_{mn} \end{bmatrix} \quad (2.4)$$

$$E = \begin{bmatrix} 1 & & & \\ & 1 & & 0 \\ & & 1 & \\ 0 & & & 1 \\ & & & & 1 \end{bmatrix} \quad (2.5)$$

$$\underbrace{\begin{bmatrix} y_1 & 1 & 1 \\ \frac{1}{\sqrt{2}} & 1 & y_2 \\ 1 & 1 & y_3 \end{bmatrix}}_{Y_{(3)}} \underbrace{\begin{bmatrix} V_1 \\ V_2 \\ V_3 \end{bmatrix}}_{V_{(3)}} = 0 \quad (2.6)$$

