

Math Fonts, Matrices and Cases

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1 Introduction

a
 $\mathcal{T} \quad \mathcal{C}, C$
 $\mathbb{R}, \mathcal{D}, \vdash$
 $\bar{x}, \overline{abcd}, \overline{abc}$
 \dot{f}, f'''

2 Matrices

$$\begin{array}{cccc} 1 & 2 & 3 & 4 \\ 5 & 6 & 7 & 8 \end{array} \begin{pmatrix} 1 & 2 & 3 & 4 \\ 5 & 6 & 7 & 8 \end{pmatrix} \begin{bmatrix} 1 & 2 & 3 & 4 \\ 5 & 6 & 7 & 8 \end{bmatrix} \begin{vmatrix} 1 & 2 & 3 & 4 \\ 5 & 6 & 7 & 8 \end{vmatrix}$$

3 Cases

$$|x| = \begin{cases} x & \text{for } x > 0 \\ 0 & \text{for } x = 0 \\ -x & \text{for } x < 0 \end{cases}$$