$$C_n^m = \frac{n!}{m!(n-m)!} \tag{1}$$

$$\forall x, x \in S \Rightarrow x \in T \tag{2}$$

$$\mathbb{R}^2 = \mathbb{R} \times \mathbb{R} \tag{3}$$

$$\left(\int_a^b f(x) \mathrm{d}x := \lim_{\lambda(P)\to 0} \sigma(f, P, \xi) \right) \tag{4}$$

$$\int_a^b f(x)\,\mathrm{d}x \coloneqq \lim_{\lambda(P)\to 0} \sigma(f, P, \xi) \tag{5}$$

$$\Delta_n = \prod_{1 \leqslant i < j \leqslant n} (x_j - x_i) \tag{6}$$

$$\boxed{\lim_{x\to\infty} (1 + \frac{1}{x})^x = e.} \tag{7}$$

$$\begin{aligned} x_{1,2} &= \frac{-b \pm \Delta}{2a} \\ \Delta &= \sqrt{b^2 - 4ac} \end{aligned} \tag{8}$$

Hello, LaTeX user!

(CTeX $\neq$ LaTeX)

CTEX $\neq$ LaTeX

有解的方程组叫做**相容的**。