$$\sqrt{\frac{2^n}{2_n}} \neq \sqrt[\frac{1}{3}]{1+n} \tag{1}$$

$$\frac{2^k}{2^{k+2}} \tag{2}$$

$$\frac{x^2}{2^{(x+2)(x-2)^3}} \tag{3}$$

$$\log_2 2^8 = 8 \tag{4}$$

$$\sqrt[3]{e^x - \log_2 x} \tag{5}$$

$$\lim_{0\to\infty} \sum_{k=1}^{n} \frac{1}{k^2} = \frac{\pi^2}{6} \tag{6}$$

$$\int_2^\infty \frac{1}{\log_2 x} dx = \frac{1}{x} \sin x = 1 - \cos^2(x) \tag{7}$$

$$\begin{bmatrix} a_{11} & a_{12} & \dots & a_{1K} \\ a_{21} & a_{22} & \dots & a_{2K} \\ \vdots & \vdots & \ddots & \vdots \\ a_{K1} & a_{K2} & \dots & a_{KK} \end{bmatrix} * \begin{bmatrix} x_1 \\ x_2 \\ \vdots \\ x_K \end{bmatrix} = \begin{bmatrix} b_1 \\ b_2 \\ \vdots \\ b_K \end{bmatrix} \tag{8}$$

$$(a_1 = a_1(x)) \wedge (a_2 = a_2(x)) \wedge \ldots \wedge (a_k = a_k(x)) \Rightarrow (d = d(u))$$

$$[x]_A = \{y \in U : a(x) = a(y), \forall a \in A\}, \text{ where the control object } x \in U$$

$$T : [0,1] \times [0,1] \to [0,1]$$

$$\lim_{x\to\infty} exp(-x) = 0$$

$$\frac{n!}{k!(n-k)!} = \binom{n}{k}$$

$$P\left(A = 2 \,\middle|\, \frac{A^2}{B} > 4\right)$$

$$S^{C_i}(a) = \frac{(\bar{C}_i^a) - (\hat{C}_i^a)^2}{Z_{\bar{C}_i^{a2}} + Z_{\hat{C}_i^{a2}}}, a \in A$$