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

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

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

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

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

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

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

$$\begin{bmatrix} a_{11} & a_{12} & \dots & a_{1K} \\ a_{21} & a_{22} & \dots & a_{2K} \\ \vdots & \vdots & \ddots & \vdots \\ a_{K1} & a_{K2} & \dots & a_{KK} \end{bmatrix} * \begin{bmatrix} x_1 \\ x_2 \\ \vdots \\ x_K \end{bmatrix} = \begin{bmatrix} a_1 \\ a_2 \\ \vdots \\ a_K \end{bmatrix} \tag{8}$$

$$(a_1 = a_1(x)) \wedge (a_2 = a_2(x)) \wedge \dots \wedge (a_k = a_k(x)) \Rightarrow (d = d(u)) \tag{9}$$

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

$$T : [0,1] \times [0,1] \to [0,1] \tag{10}$$

$$\lim_{x \to \infty} exp(-x) = 0 \tag{11}$$

$$\frac{n!}{n!(n-k)!} = \binom{n}{k} \tag{12}$$

$$P\left(A = 2 \left| \frac{A^2}{B} > 4\right.\right) \tag{13}$$

$$S^{C_i}(a) = \frac{(\overline{C}_i^a - \hat{C}_i^a)^2}{Z_{\overline{C}_i^{a^2}} + Z_{\hat{C}_i^{a^2}}}, a \in A \tag{14}$$