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

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

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

$$\log_2 2^8 = 8$$

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

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

$$\int_2^3 \frac{1}{\log_2 x} \mathrm{d}x = \frac{1}{x} \sin x = 1 - \cos^2(x)$$

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

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

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

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

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

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

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

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