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

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

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

$$\log_2 2^8 = 8$$

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

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

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

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

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

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

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

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

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

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

$$S^{C_i}(a) = \frac{(\bar{c}_i^a) - \hat{C}_i^a)^2}{Z_{\bar{c}_i^{a^2}} - Z_{\hat{C}_i^{a^2}}}$$

$$\begin{cases} |z| = |z - 4i| \\ \frac{\pi}{4} \geqslant Arg\ z < \frac{\pi}{2} \end{cases}$$

$$\begin{cases} |z + 4| - |z + 2 - 2i| \\ |z| \geqslant 2 \end{cases}$$

$$\begin{cases} |z - 1 - i| < \sqrt{2} \\ Arg(z - 1 - i) < \frac{\pi}{2} \end{cases}$$

$$\begin{cases} x - y - z = 1 \\ 3x + 4y - 2z = -1 \\ 3x - 2y - 2z = 1 \end{cases}$$

$$\begin{cases} y - 3x + 4v = 0 \\ x - 2z = 0 \\ 3x + 2y - 5v = 2 \\ 4x - 5z = 0 \end{cases}$$

$$\begin{bmatrix} 1 & 0 & 0 \\ 0 & 3 & 0 \\ 0 & 0 & 1 \end{bmatrix} * \begin{bmatrix} 1 & 2 & 3 \\ 3 & 1 & 2 \\ 5 & 1 & 3 \end{bmatrix}$$

$$\begin{bmatrix} 0 & 1 & 0 \\ 1 & 0 & 0 \\ 0 & 0 & 1 \end{bmatrix} * \begin{bmatrix} 11 & -2 \\ 6 & -14 \\ -21 & 30 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 1 & 0 & 1 \end{bmatrix} * \begin{bmatrix} 1 & 1 & 3 \\ 2 & 1 & 4 \\ 1 & 3 & 0 \end{bmatrix}$$

$$\begin{vmatrix} -3 & 2 \\ 8 & -5 \end{vmatrix}$$

$$\begin{vmatrix} \sin\alpha & \cos\alpha \\ \sin\beta & \cos\beta \end{vmatrix}$$

$$\begin{vmatrix} 1 & i & 1+i \\ -i & 1 & 0 \\ 1-i & 0 & 1 \end{vmatrix}$$

$$\left[\begin{array}{c|cc|ccc} 1 & 0 & 0 & 1 & 1 & 1 \\ \hline 0 & 2 & 2 & 1 & 2 & 3 \\ 0 & 2 & 2 & 4 & 5 & 6 \\ \hline 0 & 0 & 0 & 3 & 3 & 1 \\ 0 & 0 & 0 & 3 & 1 & 3 \\ 0 & 0 & 0 & 1 & 3 & 3 \end{array}\right]$$

$$\int_1^{\infty} \frac{dx}{(x+2)^2}$$

$$\int_{-\infty}^{0} \frac{dx}{x^2+4}$$

$$\int_{-\infty}^{\infty} x^2 exp^{-x^3} dx$$

$$\int_1^{\infty} \frac{dx}{\sqrt[3]{3x+5}}$$

$$\log_{\sqrt{5}} 5\sqrt[3]{5}$$

$$\log_{\sqrt[3]{3}} 27$$

$$\log_2 8\sqrt{2}$$

$$\lim_{n\to\infty} \left(\sqrt{n+6\sqrt{n}+1} - \sqrt{n}\right)$$

$$\lim_{n\to\infty} \frac{1+\frac{1}{2}+\frac{1}{2^2}+\ldots+\frac{1}{2^n}}{1+\frac{1}{3}+\frac{1}{3^2}+\ldots+\frac{1}{3^n}}$$

$$\sum_{n=1}^{\infty} (-1)^{n+1}(2n-1)$$

$$\sum_{n=1}^{\infty} \sin\frac{2\pi}{3^\pi} \cos\frac{4\pi}{3^\pi}$$

$$\begin{bmatrix} 1 & 2 & 3 \\ 0 & -6 & 7 \end{bmatrix}^T - \begin{bmatrix} 1 & 0 \\ 2 & -6 \\ 3 & 7 \end{bmatrix}$$

$$U_{AB} = \frac{W_{A\to B}}{q} = \int_A^B \vec{E} * \vec{dl}$$