

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

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

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

$$\log_2 2^8 = 8$$

$$\sqrt[3]{e^x-\log_2x}$$

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

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

$$\left[\begin{array}{cccc} a_{11} & a_{12} & \ldots & a_{1K} \\ a_{21} & a_{22} & \ldots & a_{2K} \\ \vdots & \vdots & \ddots & \vdots \\ a_{K1} & a_{K2} & \ldots & a_{KK} \end{array}\right]*\left[\begin{array}{c} x_1 \\ x_2 \\ \vdots \\ x_K \end{array}\right]=\left[\begin{array}{c} b_1 \\ b_2 \\ \vdots \\ b_K \end{array}\right]$$

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

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

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

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

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

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

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

$$\left\{\begin{array}{l} |z|=|z-4i|\\ \frac{\pi}{4}\geqslant \arg z<\frac{\pi}{2} \end{array}\right.$$

$$\left\{\begin{array}{l} |z+4|=|z+2-2i|\\ |z|\geqslant 2 \end{array}\right.$$

$$\left\{\begin{array}{l} |z-1-i|<\sqrt{2}\\ \arg{(z-1-i)}<\frac{\pi}{2} \end{array}\right.$$

$$\left\{\begin{array}{l} x\,+\,5y\,=\,2\\ -3x\,+\,6y\,=\,15 \end{array}\right.$$

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

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

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

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

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

$$\left|\begin{array}{cc} -3 & 2 \\ 8 & -5 \end{array}\right|$$

$$\left|\begin{array}{cc} \sin\alpha & \cos\alpha \\ \sin\beta & \cos\beta \end{array}\right|$$

$$\left|\begin{array}{ccc} 1 & i & 1+i \\ -i & 1 & 0 \\ 1-i & 0 & 1 \end{array}\right|$$

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

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

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

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

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

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

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

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

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

$$\lim_{n\rightarrow\infty}\frac{1+\frac{1}{2}+\frac{1}{2^2}+\dots+\frac{1}{2^n}}{1+\frac{1}{3}+\frac{1}{3^2}+\dots+\frac{1}{3^n}}$$

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

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

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

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