

1 .

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

2 .

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

3 .

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

4 .

$$\log_2 2^8 = 8$$

5 .

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

6 .

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

7 .

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

8 .

$$\begin{bmatrix} a_{11} & a_{12} & \dots & a_{1k} \\ a_{21} & a_{22} & \dots & a_{2k} \\ \vdots & \vdots & \ddots & \vdots \\ a_{k1} & a_{k2} & \dots & a_{kk} \end{bmatrix} * \begin{bmatrix} x_1 \\ x_2 \\ \vdots \\ x_k \end{bmatrix} = \begin{bmatrix} b_1 \\ b_2 \\ \vdots \\ b_k \end{bmatrix}$$

9 .

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

10 .

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

11 .

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

12 .

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

13 .

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

14 .

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

15 .

$$S^{c_i}(a) = \underline{(\bar{C}_i^a)}$$