

数式例

平成 17 年 9 月 14 日

$$(x + f(x))(y + f(y)) \quad x^2 + 2xy + y^2 = (x + y)^2 \quad x^2 - 2xy + y^2 = (x - y)^2$$

$$x \widehat{+} y \quad \underbrace{a + b + c + d + e + f}_{24 \text{ 個}} \quad \underbrace{a + b + c + \dots + x + y + z}_{26 \text{ 個}} \quad \left(\frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2} \right) |\varphi(x + iy)|^2 = 0$$

$$\left(0, \frac{a!}{n!} \right] \quad x y_b^z \quad \binom{a}{b+c} \quad \sin^2 \theta + \cos^2 \theta = 1 \quad {}^{n+1}\sqrt{x+y} \quad \log_x y = \frac{\log_a y}{\log_a x}$$

$$\lim_{n \rightarrow \infty} S_n \quad \sum_{n=1}^m a_n = \prod_{n=1}^m b_n \quad \int_{-\infty}^{+\infty} f(x) dx \quad \sum_{\substack{0 \leq i \leq 3 \\ 0 \leq j \leq 3 \\ 0 \leq k \leq 3 \\ 0 \leq l \leq 3}} P(i, j, k, l) \quad \int_{-\infty}^{+\infty} g(x) dx \quad \sum_{n=1}^m n^2$$

$$\begin{pmatrix} a & x & x & 1 & \text{文字も} \\ a+b & x+y & xy & 12 & \text{入れることが} \\ a+b+c & x+y+z & xyz & 123 & \text{出来ます。} \end{pmatrix} \quad |x| = \begin{cases} x & x \geq 0 \\ -x & x < 0 \end{cases}$$

$$x = 17y \tag{1}$$

$$y > a + b + c + d + e + f + g + h + i + j + k + l + m + n + o + p \tag{2}$$

$$y = x^n - 1 \\ = (x - 1)(x^{n-1} + x^{n-2} + \dots + x^2 + x + 1)$$

$$\gcd(m, n) = a \bmod b \quad x \equiv y \pmod{a+b} \quad \cos \theta = \sin(\theta + 90^\circ)$$

$$\sqrt{1 + \sqrt{1 + \sqrt{1 + \sqrt{1 + \sqrt{1 + \sqrt{1 + \sqrt{1 + x}}}}}}}} \quad 1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{1 + \dots}}} \quad \begin{pmatrix} a_{11} & a_{12} & \dots & a_{1n} \\ a_{21} & a_{22} & \dots & a_{2n} \\ \vdots & \vdots & \ddots & \vdots \\ a_{m1} & a_{m2} & \dots & a_{mn} \end{pmatrix}$$

$$\underbrace{\{ \overbrace{a, \dots, a}^{k \text{ a's}}, \overbrace{b, \dots, b}^{l \text{ b's}} \}}_{k+l \text{ element}} \quad \sum_{x \in A} f(x) \stackrel{\text{def}}{=} \sum_{\substack{x \in A \\ x \neq 0}} f(x) \quad 2 \uparrow \uparrow k \stackrel{\text{def}}{=} 2^{2^{\dots^2}} \}^k$$

$$u(x, t) = \frac{2}{L} \sum_1^\infty \exp\left(-\frac{u^2 \pi^2 k t}{L^2}\right) \sin \frac{n \pi x}{L} \times \int_0^L f(x') \sin \frac{n \pi x'}{L} dx'$$