Hello Wolrd!
$y = 2x - 1$
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$x^{2y}, x^{2y^x}, X_{n_1}^{2y^z}$

$X_{3m}^{2m}, X^2 n_3 m$

X_n^2, X_n^2, X_{n^2}

$2^{2^{2^{2^{2^{2^{2^{2}}}}}}}$

$f'(x) \quad f'''(x)|_{x=0}$

$\pi, \Phi, \Sigma, \mu, \alpha$

$\mathit{\Gamma\Pi\Phi}$는 $\Gamma\Pi\Phi$와 다르다.

... 는 $\Psi\Theta\Omega$와 다르다.

$\sqrt[n]{x}$, $\sqrt[3]{ax+b}$, $\sqrt[2]{5}$, $\sqrt{2}$, $\sqrt[x]{2}$

$$\sqrt{1+\sqrt{1+\sqrt{1+\sqrt{1+\sqrt{1+\sqrt{1+x}}}}}} \tag{1}$$

$$\sqrt{a}\sqrt{d}\sqrt{g}$$

$(x_1 + \cdots + x_n)$
$(a_1, \ldots, a_m)$
$(a_1, \vdots, a_n)$
$(a_1, \ddots, a_n)$

$\frac{x^2+1}{y_1^2-1}$

$1+\cfrac{1}{1+\frac{1}{1+\frac{1}{1+\frac{1}{1+\frac{1}{1+x}}}}}$

$\frac{1}{2}$ $\frac{x}{2}$

$\mathcal{A}\otimes$

$\mathcal{A}\unlhd$

$\mathcal{S}$를 $\mathcal{S}=\{A \mid A \ni \mathcal{T}\}$라 하자.

$\not A, \emptyset$

$\not\ni, \not\subset, \not<$

$\lim_{n\to\infty}$

$$\liminf_{n\longrightarrow\infty}$$

$$liminf_{n\longrightarrow\infty}$$

$a \bmod b \qquad y \pmod{a+b}$

$\int\int\cdots\int fdP$

$\int\!\int\cdots\int fdP$

$\iint\cdots\int fdP$

$1/\log n$

$\sqrt{4}\,n$

$$f(x;\mu,\sigma)=\frac{1}{\sqrt{2\pi}\sigma}\exp\left\{-\frac{(x-\mu)^2}{2\sigma^2}\right\}$$

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$$\sum_{i=1}^{n} x_i = \int_0^1 f$$

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$\dfrac{a-b}{c+d}$

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$$\vec{x}+\vec{y}=\left\{\begin{array}{l} a \\ b \end{array}\right.$$

$$\mathbf{A} = \left(\begin{array}{ccc} a_{11} & a_{12} & a_{13} \\ a_{21} & a_{22} & a_{23} \\ a_{31} & a_{32} & a_{33} \end{array} \right)$$

$$\widehat{a-1} = \widetilde{x-y} + \widehat{\mathrm{Cov}}$$

$$\begin{array}{lcr} a & b & c \\ a-b & b-c & c-a \\ x^2+2x+1 & x^2+2x+1 & x^2+2x+1 \end{array}$$

$$\begin{array}{c} a_{11}x_1{+}a_{12}x_2{+}\cdots{+}a_{1n}x_n{=}b_1 \\ a_{11}x_1{+}a_{12}x_2{+}\cdots{+}a_{1n}x_n{=}b_1 \\ \vdots \\ a_{11}x_1{+}a_{12}x_2{+}\cdots{+}a_{1n}x_n{=}b_1 \end{array} \tag{2}$$

$$\left(\begin{array}{c} \left| \begin{array}{cc} a & b \\ c & d \end{array} \right| \\ e \\ f \end{array} \right)$$

$$x^n = \overbrace{x \times x \times \cdots \times x}$$

$$\overbrace{a + \underbrace{b + \overline{c + d}}{}+e}$$

$$\overbrace{a + \underbrace{b + c}_{123}+e}^{ab}$$

$$\frac{p(x_i|\mathbf{x}_{-i})}{1-p(x_i|\mathbf{x}_{-i})} = \theta_1 \sum_{i=1}^{m} x_i + \beta_1 \sum_{\text{nbr}} x_i x_{i'} \tag{3}$$

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Test the above equation label in here (3).

$$
\begin{aligned}
(x+y)^2 &= x^2 + xy + yx + y^2 && (5)\\
&= x^2 + xy + xy + y^2\\
&= x^2 + 2xy + y^2 && (6)
\end{aligned}
$$

$$
\begin{aligned}
(x+y)^2 &= x^2 + xy + yx + y^2 && (7)\\
&= x^2 + 2xy + y^2
\end{aligned}
$$

$$
\begin{aligned}
(x+y)^2 &= x^2 + xy + yx + y^2\\
&= x^2 + 2xy + y^2
\end{aligned}
$$

$$
\begin{multline}
a+b+c+d+e+f+g+h+i+j+k+l = \\
x+y+z+a+b+c+d+e+f+g+o+s+t+ \\
u+v+w
\end{multline}
$$