Hello Wolrd!

$$y = 2x - 1$$

$$x^{2y}, x^{2y^x}, X_{n_1}^{2y^z}$$

$$X_{3m}^{2m}, X^2n_3m$$

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

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

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

 $\Gamma \Pi \Phi$ 는  $\Gamma \Pi \Phi$ 와 다르다.

$$\dots$$
 는  $\Psi\Theta\Omega$ 와 다르다.

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

$$\sqrt{1+\sqrt{1+\sqrt{1+\sqrt{1+x^2}}}}$$
 (1)

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

$$(x_1 + \dots + x_n)$$

$$(a_1,\ldots,a_m)$$

$$(a_1, \vdots, a_n)$$

$$(a_1, \cdots, a_n)$$

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

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

$$\frac{\frac{1}{2}\frac{\frac{x}{2}}{2}}{\mathcal{A}\otimes}$$
 $\mathcal{A} \subseteq$ 
 $\mathcal{S} \stackrel{=}{=} \mathcal{S} = \{A \mid A \ni \mathcal{T}\}$ 라 하자.
 $\mathcal{I}, \emptyset$ 
 $\not\ni, \not\subset, \not<$ 

$$\lim_{n\to\infty}$$

 $\lim_{n \to \infty} \inf$ 

 $liminf_{n\longrightarrow\infty}$ 

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

$$\int \int \cdots \int f dP$$

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$$1/\log n$$

$$\sqrt{4} n$$

$$f(x; \mu, \sigma) = \frac{1}{\sqrt{2\pi}\sigma} \exp\left\{-\frac{(x-\mu)^2}{2\sigma^2}\right\}$$
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$$\sum_{i=1}^{n} x_i = \int_0^1 f$$

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

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

$$\mathbf{A} = \begin{pmatrix} a_{11} & a_{12} & a_{13} \\ a_{21} & a_{22} & a_{23} \\ a_{31} & a_{32} & a_{33} \end{pmatrix}$$

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

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

$$\begin{array}{c|c}
e \\
f
\end{array}$$

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

$$a+\underline{b+c+d}+e$$

$$a+b+c+e$$

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

$$\frac{p(x_i|\mathbf{x}_{-i})}{1 - p(x_i|\mathbf{x}_{-i})} = \theta_1 \sum_{i=1}^{m} x_i + \beta_1 \sum_{n \text{br}} x_i x_{i'}$$
(4)

Test the above equation label in here (3).

$$(x+y)^{2} = x^{2} + xy + yx + y^{2}$$

$$= x^{2} + xy + xy + y^{2}$$

$$= x^{2} + 2xy + y^{2}$$
(5)

$$(x+y)^{2} = x^{2} + xy + yx + y^{2}$$
  
=  $x^{2} + 2xy + y^{2}$  (7)

$$(x+y)^2 = x^2 + xy + yx + y^2$$
  
=  $x^2 + 2xy + y^2$ 

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

Math italic different is from different.

$$f(x) = \begin{cases} x & if x > 2 or if x < -2 \\ x & if x > 2 or if x < -2 \\ x & if x > 2 or if x < -2 \end{cases}$$
 (8)

Form  $e^{pdf} + \phi(x)$ 

Form  $e^{pdf} + \phi(x)$ 

Form  $e^{pdf} + \phi(x)$ 

Form  $e^{pdf} + \phi(\mathbf{x})$ 

Form  $e^{pdf} + \phi(x)$ 

 $\mathcal{ABC}$ 

$$\mathbf{a} = (a_1, a_2, \dots, a_n)^T$$

$$a = (a_1, a_2, \dots, a_n)^T$$

$$\mathbf{a} = (a_1, a_2, \dots, a_n)^T$$

$$\boldsymbol{a} = (a_1, a_2, \dots, a_n)^T$$

$$aX + \beta + \gamma$$

$$aX + \beta + \gamma$$

$$A \xrightarrow{f} B \xrightarrow{g} C$$

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

$$a + b$$

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

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

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

표준편차 = 
$$\sqrt{분산} = \sqrt{\frac{편3 의 합}{\frac{\pi \cancel{E}}{3} \cancel{H} + \frac{1}{2}}$$
 (9)

$$\int_0^\infty f(x)dx$$

$$\int_{0}^{\infty} f(x)dx$$

$$\int_{0}^{\infty} f(x)dx$$

$$\int_0^\infty f(x)dx$$

$$\int_0^\infty f(x)dx$$

$$\inf \sup_{n\to\infty} f_n(x)$$

$$\inf_{n\to\infty} \sup_{x\to\infty} f_n(x)$$

$$n\rightarrow\infty$$

$$\inf_{n \to \infty}^{\text{woops}} f_n(x)$$

 $\inf \sup_{n \to \infty}^{\text{woops}} f_n(x)$ 

$$\binom{2n}{n}$$
,  $_{2n}\mathbf{C_n}$ 

$$\left(\begin{array}{c}2n\\n\end{array}\right)$$

$$\binom{2n}{n}$$

$$\begin{bmatrix} x \\ 2y \end{bmatrix}$$

$${a-c \brace b}$$

$$^{231}_{73}{
m U}$$

$$^{231}_{73}{
m U}$$

$$x + \left\langle {a+b\atop c} \right\rangle$$

$$x + \uparrow^{a+b}_{c} \downarrow$$

$$A = \begin{pmatrix} \lambda & l \\ a & \alpha \end{pmatrix}$$

$$B = \left(\begin{array}{cc} \lambda & 1\\ a & \alpha \end{array}\right)$$

$$A = \begin{array}{ccc} n_1 & n_2 & n_3 \\ m_1 & A_{11} & A_{12} & A_{13} \\ m_2 & A_{21} & A_{22} & A_{23} \end{array}$$

$$A = \begin{array}{ccc} & n_1 & n_2 & n_3 \\ M_1 & A_{11} & A_{12} & A_{13} \\ M_2 & A_{21} & A_{22} & A_{23} \end{array} \right)$$

$$f(x) = \begin{cases} x & \text{for } x > 0\\ -x & \text{for } -1 < x \le 0\\ x^2 & \text{otherwise} \end{cases}$$

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$$\frac{a+b}{c+d}$$
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$$\{x | x \in X\}$$

$$\{x \mid x \in X\}$$

$$\{x | x \in X\}$$

$$\{x | x \in X\}$$

$$\left\{ \left\{ \left\{ \left\{ \left\{ \left\{ \left\{ \right\} \right\} \right\} \right\} \right\} \right.$$

$$|b = |x + y||$$

$$|b-|x+y|$$

$$\frac{1}{\sqrt{2\pi}\sigma} \exp\{-\frac{(x-\mu)^2}{2\sigma^2}\} \text{ if } \mu = 0, \sigma = 1, \tag{10a}$$

$$\frac{1}{\sqrt{2\pi}\sigma} \exp\{-\frac{x^x}{2\sigma^2}\} \text{ if } \mu = 0, \tag{10b}$$

$$\frac{1}{\sqrt{2\pi}} \exp\{-\frac{x^2}{2}\} \text{ if } \mu = 0, \sigma = 1.$$
 (10c)

식 (10b)와 식 (10c)는 식 (10a)의 특별한 경우이다.