$y = 2x - 1$

$y = 2x - 1$
$y = 2x - 1$
$x^2 - 1$

$$x^2 - 1$$

$x^{2y}, x^{2y^x}, X_{n_1}^{2y^z}$
$2^{2^{2^{2^{2^{2^2}}}}}$
$f'(x) \quad f'''(x)|_{x=0}$
$\pi, \Phi, \Sigma, \mu, \alpha$
$\mathit{\Gamma\Pi\Phi}$는 $\Gamma\Pi\Phi$와 다르다.
Ψ는 $\Psi\Theta\Omega$와 다르다.
$\sqrt[n]{x}, \sqrt[3]{ax+b}, \sqrt[2]{5}, \sqrt{2}, \sqrt[x]{2}$

$$\sqrt{1+\sqrt{1+\sqrt{1+\sqrt{1+\sqrt{1+\sqrt{1+x}}}}}} \quad . \quad . \quad . \quad . \quad . \quad . \quad . \quad . \quad . \quad . \quad . \quad (1)$$

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

$(x_1 + \cdots + x_n)$
$(a_1, \ldots, a_m)$
$\ldots(\ldots)$
$\dfrac{x^2+1}{y_1^2-1}$
$1 + \cfrac{1}{1+\cfrac{1}{1+\cfrac{1}{1+\cfrac{1}{1+x}}}}$
$\frac{1}{2}, \frac{x}{2}$
$\mathcal{S}$를 $\mathcal{S} = \{A \mid A \ni \mathcal{T}\}$라 하자.
$\emptyset, \emptyset$
$\not\ni, \not\subset, \not< $
$\lim_{n\to\infty}$

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

$\limsup_n$

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

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

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

$\iint\cdots\int f dP$

$1/\log n \qquad 1/\log$

$\sqrt{4}\,n$

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

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디스플레이 스타일:

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

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

$\frac{a-b}{c+d}$ 와 $\frac{a-b}{c+d}$

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

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

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

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

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

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

$$\begin{array}{l} a_{11}x_1+a_{12}x_2+\cdots+a_{1n}x_n=b_1 \\ a_{11}x_1+a_{12}x_2+\cdots+a_{1n}x_n=b_1 \\ \qquad\qquad\vdots \\ a_{11}x_1+a_{12}x_2+\cdots+a_{1n}x_n=b_1 \end{array} \qquad \cdots\cdots\cdots\cdots\cdots\cdots \quad (2)$$

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

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

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

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

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

$$\begin{aligned} (x+y)^2 &= x^2 + xy + yx + y^2 \quad . \quad . \quad . \quad . \quad . \quad . \quad . \quad . \quad . \quad . \quad . \quad . \quad . \quad (4) \\ &= x^2 + xy + xy + y^2 \\ &= x^2 + 2xy + y^2 \quad . \quad . \quad . \quad . \quad . \quad . \quad . \quad . \quad . \quad . \quad . \quad . \quad . \quad . \quad (5) \end{aligned}$$

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

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

Math italic $different$ is from *different*.

$$f(x) = \begin{cases} x & if x > 2 or if x < -2 \\ x & \text{if} x > 2 \text{orif} x < -2 \\ x & \text{if } x > 2 \text{ or if } x < -2 \end{cases} \quad . \quad . \quad . \quad . \quad . \quad . \quad . \quad . \quad . \quad . \quad . \quad . \quad (7)$$

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

$\texttt{Form e}^{\texttt{pdf}} + (\texttt{x})$
$\mathbf{Form\ e^{pdf}} + (\mathbf{x})$
$\mathsf{Form\ e^{pdf}} + (\mathsf{x})$
$\mathcal{ABC}$

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

$\boldsymbol{a = (a_1, a_2, \ldots, a_n)^T}$
$\boldsymbol{a}= (a_1, a_2, \ldots, a_n)^T$
$\boldsymbol{a} = (a_1, a_2, \ldots, a_n)^T$
$\boldsymbol{aX + \beta + \gamma}$
$\boldsymbol{aX} + \boldsymbol{\beta} + \boldsymbol{\gamma}$
$A \xrightarrow{f} B \xrightarrow{g} C$
$AAAAA$
$\frac{a+b}{c-d}$
$\frac{a+b}{c-d}$
$1 + \frac{1}{1+\frac{1}{1+\frac{1}{1+\frac{1}{1+x}}}}$

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

$$\text{표준편차} = \sqrt{\text{분산}} = \sqrt{\frac{\text{편차}^2\text{의 합}}{\text{표본의 개수} - 1}} \quad \cdots\cdots\cdots\cdots (8)$$

$\int_0^\infty f(x)dx$
$\int\limits_0^\infty f(x)dx$

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

$\int_0^\infty f(x)dx$
$\int_0^\infty f(x)dx$
$\inf \sup_{n\to\infty} f_n(x)$

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

$$\sum_{\substack{i,j=1,n\\ i\neq j}}$$

$$\sum_{i,j=1,ni\neq j}$$
$\binom{2n}{n}$, ${}_{2n}\mathrm{C}_{\mathrm{n}}$
$\left(\begin{array}{c} 2n \\ n \end{array}\right)$

$$\tbinom{2n}{n}$$

$\left[\begin{smallmatrix} x \\ 2y \end{smallmatrix}\right]$
$\left\{\begin{smallmatrix} a-c \\ b \end{smallmatrix}\right\}$

$${}^{231}_{73}\mathrm{U}$$

$${}^{231}_{73}\mathrm{U}$$

$$x + \left\langle \begin{array}{c} a+b \\ c \end{array} \right\rangle$$

$$x + \left\uparrow \begin{array}{c} a+b \\ c \end{array} \right\downarrow$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$\left|b - |x + y|\right|$$

$$\frac{1}{\sqrt{2\pi}\sigma} \exp\{-\frac{(x-\mu)^2}{2\sigma^2}\} \text{ if } \mu = 0, \sigma = 1 \tag{9a}$$

$$\frac{1}{\sqrt{2\pi}\sigma} \exp\{-\frac{x^2}{2\sigma^2}\} \text{ if } \mu = 0 \tag{9b}$$

$$\frac{1}{\sqrt{2\pi}} \exp\{-\frac{x^2}{2}\} \text{ if } \mu = 0, \sigma = 1 \tag{9c}$$

식 9b와 9c는 식 9a의 특별한 경우이다.

$\mathbb{ABCDER}$

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