$y = 2x - 1$

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

$$x^2 - 1$$

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

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

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

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

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

$\quad$는 $\Psi\Theta\Omega$와 다르다.

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

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

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

$(x_1 + \cdots + x_n)$
$(a_1, \ldots, a_m)$
$\ldots(\ldots)$
$\dfrac{x^2+1}{y_1^2-1}$
$1 + \cfrac{1}{1+\cfrac{1}{1+\cfrac{1}{1+\cfrac{1}{1+x}}}}$

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

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

$\emptyset, \varnothing$

$\neq, \not\subset, \nprec$

$\lim_{n\to\infty}$

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

$\limsup_n$

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

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

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

$\iint \cdots \int f dP$

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

$\sqrt[4]{n}$

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

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

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

디스플레이 스타일:

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

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

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

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

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

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

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

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

$a \qquad\qquad b \qquad c$

$a-b \qquad\qquad b-c \qquad c-a$

$x^2 + 2x + 1 \quad x^2 + 2x + 1 \quad x^2 + 2x + 1$

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

$$\left(\begin{vmatrix} a & b \\ c & d \end{vmatrix} \atop {e \atop f} \right)$$

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

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

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

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

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

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

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

Math italic $different$ is from *different*.

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

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

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

Form e^{pdf} + (x)

Form e^{pdf} + (x)

Form e^{pdf} + (x)

$\mathcal{ABC}$

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

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

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

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

$\boldsymbol{aX + \beta + \gamma}$

$\boldsymbol{aX + \beta + \gamma}$

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

$AAAAA$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$\begin{pmatrix} 2n \\ n \end{pmatrix}$$

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

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

$$\left\{ \begin{matrix} a-c \\ b \end{matrix} \right\}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

식 9b와 9c는 식 9a의 특별한 경우이다.

<div align="center">

ABCDER

Mathfrack Font

</div>

®✓♰

$$\sum_{\substack{i=j \\ j<k \\ j\neq k}} x_{ij}^{j-k}$$

$$\iiint_{\substack{x\in A \\ y\in B \\ C\ni z}} f(x,y,z)\,dxdydz$$

$$\sum^{\sum^{n}_{m-n}} x_{ij}$$

$$\begin{aligned}
a = d &+ e + f + g + h + i + j + k + l + m \\
&+ q + r + s + t + u + v + w + x + y + x + z \\
+ q + r + s + t &+ u + v + w + x + y + z \\
&= e + f + g + h + i + j + k + l + m + z + y + x + m_2
\end{aligned} \tag{10}$$

$$(x+y)^2 = x^2 + 2xy + y^2 \tag{11}$$

$$(x+y+z)^2 = x^2 + y^2 + z^2 + 2xy + 2yz + 2zx \tag{12}$$