

$$\liminf_{n \rightarrow \infty}$$

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

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

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

$$\sqrt{4n}$$

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

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

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디스플레이 스타일:

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

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

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

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

$$\overline{c+d}$$

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

$$c + d$$

$$\vec{x} + \vec{y} = \begin{cases} a \\ b \end{cases}$$

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

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

$$a$$

$$b$$

\mathcal{C}

$$a - b$$

$$b - c$$

$$c - a$$

$$x^2 + 2x + 1$$

$$x^2 + 2x + 1$$

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$$a_{11}x_1 + a_{12}x_2 + \cdots + a_{1n}x_n = b_1$$

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$$a_{11}x_1+a_{12}x_2+\cdots+a_{1n}x_n=b_1$$

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

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

$$\overbrace{a + b + \overbrace{c + d}^{\text{sum of } c \text{ and } d}}^{\text{sum of } a, b, c, \text{ and } d} + e$$

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

[illegible]

[illegible]

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

[illegible]

$$a + b + c + d + e + f + g + h + i + j + k + l =$$

$$x + y + z + a + b + c + d + e + f + g + o + s + t +$$

$$u + v + w$$

Math italic *different* is from *different*.

[illegible]

$$\begin{array}{l} \text{Form } e^{\text{pdf}} + \Phi(x) \\ \textit{Form } e^{\textit{pdf}} + \Phi(x) \end{array}$$

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

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

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

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$$aX + \beta + \gamma$$

$$aX + \beta + \gamma$$

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

$$A \vdash A$$

$$a + b$$

$$\overline{c - d}$$

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

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

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

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

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

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

$$\begin{array}{c} J \quad J \\ 0 \\ \infty \end{array}$$

$$\int^{\infty} f(x) dx$$

$$J_0$$

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

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

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

$$\inf_{\substack{n\rightarrow\infty\\ \text{woops}}}\sup f_n(x)\\ \inf_{\substack{n\rightarrow\infty}}\sup f_n(x)\\ \inf\sup_{n\rightarrow\infty}^{\text{woops}}f_n(x)$$

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

$$\sum_{i,j=1,ni\neq j}\binom{2n}{n},\,2nC_n\\ \binom{2n}{n}$$

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

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

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

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

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

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

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

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

$$\mathfrak{5}$$

$$f(x)=\left\{\begin{array}{ll}x & \text{for } x>0 \\ -x & \text{for } -1<x\leq 0 \\ x^2 & \text{otherwise}\end{array}\right.$$

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

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

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

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

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

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

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

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

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

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

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

식 9b와 9c는 식 9a의 특별한 경우이다.

ABCDER

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$$\sum_{\substack{i=j\\j<k\\j\neq k}}x_{ij}^{j-k}$$
$$\iiint\limits_{\substack{x\in A\\y\in B\\C\ni z}}f(x,y,z)dx dy dz$$
$$\sum\limits^{\Sigma^{m-n}}_n x_{ij}$$

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

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

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

$$(x+y)^2=x^2+2xy+y^2\tag{13}$$

$$(x+y+z)^2=x^2+y^2+z^2+2xy+2yz+2zx\tag{14}$$

$$a_{11}=a_{12}\qquad\qquad\qquad a_{13}=a_{14}\tag{15}$$

$$(x+y)^2=(x+y)(x+y)x^2+2xy+y^2=z^2\tag{16}$$

$$f(x)=\frac{1}{(1+x^2)}\qquad\qquad\qquad g(x)=\sqrt{2\pi}\tag{17}$$

$$\begin{array}{llll}
a = \alpha & & D = \Delta\Delta\Delta & \\
b = \beta\beta & \text{versus} & e = \epsilon\epsilon & \dots\dots\dots (18) \\
c = \gamma\gamma\gamma & & Z = \Omega &
\end{array}$$

$$\begin{array}{llll}
a = \alpha & & D = \Delta\Delta\Delta & \\
b = \beta\beta & \text{versus} & e = \epsilon\epsilon & \dots\dots\dots (19) \\
c = \gamma\gamma\gamma & & Z = \Omega &
\end{array}$$

$$\begin{array}{llll}
f(x) = \mathcal{F}(x)g(x) = \mathcal{G}(x) & & \mathfrak{F} = \mathbb{F} & \\
f(x) = \mathfrak{F}(x)g(x) = \mathfrak{G}(x) & \text{where} & \mathfrak{G} = \mathbb{G} & \dots\dots\dots (20)
\end{array}$$

$$f(x) = \mathcal{F}(x) \qquad g(x) = \mathcal{G}(x) \qquad \mathcal{G} = \mathbb{G} \qquad (21)$$

$$f(x) = \mathfrak{F}(x) \qquad g(x) = \mathfrak{G}(x) \qquad \mathcal{F} = \mathbb{F} \qquad (22)$$

$$\begin{array}{llll}
f(x) = \mathcal{F}(x) & & g(x) = \mathcal{G}(x) & \mathcal{G} = \mathbb{G} \\
f(x) = \mathfrak{F}(x) & & g(x) = \mathfrak{G}(x) & \mathcal{F} = \mathbb{F}
\end{array}$$

$$P_{i-j} = \begin{cases} 0 & \text{if } r-j \text{ is odd} \\ r!(-1)^{i-j} & \text{if } r-j \text{ is even} \end{cases} \dots\dots\dots (23)$$

$$a_1 = a_0 + d \qquad (24)$$

$$a_2 = a_1 + d = a_0 + 2d \qquad (25)$$

in general

$$a_n = a_{n-1} + d = a_0 + nd \qquad (26)$$

$$a_1 = a_0 + d \dots\dots\dots (27a)$$

$$a_n = a_{n-1} + d \dots\dots\dots (27b)$$

$$\begin{array}{c}
A_1, A_2, \dots, A_1, A_2, \dots \\
A_1 + A_2 + \dots, A_1 + A_2 + \dots \\
\text{곱하기} A_1 A_2 \dots, A_1 A_2 \dots \\
\int_{A_1} \int_{A_2} \dots \int_{A_1} \int_{A_2} \dots
\end{array}$$