

$$y=2x-1$$

$$\begin{array}{l} y=2x-1 \\ y=2x-1 \\ x^2-1 \end{array}$$

$$x^2-1$$

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

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

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

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

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

$$\hbox{는}\Psi\Theta\Omega\hbox{와}\hbox{다르다}.$$

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

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

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

$$(x_1+\cdots+x_n)$$

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

$$\ldots (...)$$

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

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

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

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

$$\emptyset,\emptyset$$

$$\nexists,\not\subset,\not\leftarrow$$

$$\lim_{n\rightarrow\infty}$$

$$\lim_{n\rightarrow\infty}$$

$$\limsup_n$$

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

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

$\sqrt{4n}$

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

디스플레이 스타일:

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

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

$$\begin{array}{r} c + a \\ a - b \end{array}$$

$$\overline{c + d}$$

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

$$\overline{c + d}$$

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

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

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

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

[illegible]

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

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

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

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

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

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

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

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

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

Math italic *different* is from *different*.

$$f(x)=\left\{\begin{array}{ll} x & ifx>2orifx<-2 \\ x & ifx>2orifx<-2 \\ x & if\,x>2\,or\,if\,x<-2 \end{array}\right.\text{ . . . . .} \quad (7)$$

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

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

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

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

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

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

$$aX + \beta + \gamma$$

$$aX + \beta + \gamma$$

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

$$A \rightarrow B =$$
  

$$A A A A A$$

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

$$\overline{c-d}$$

$$\frac{a+b}{1}$$

$$c - d \over 1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{1 + x}}}}$$

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

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

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

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

$$\begin{matrix} J & J \\ 0 & \\ \infty & \end{matrix}$$

$$\int f(x)dx$$

$$J_0$$

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

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

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

$$\infsup_{\substack{n\rightarrow\infty\\ \text{woops}}}f_n(x)\\ \infsup_{n\rightarrow\infty}f_n(x)\\ \infsup_{n\rightarrow\infty}^{\text{woops}}f_n(x)$$

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

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

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

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

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

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

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

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

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

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

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

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

$$\mathfrak{5}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

식 9b와 9c는 식 9a의 특별한 경우이다.

ABCDER

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

$$\iiint\limits_{\substack{x\in A\\y\in B\\C\ni z}}f(x,y,z)dx dy dz$$

$$\sum\limits^{\Sigma^{m-n}}_n x_{ij}$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

in general

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

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

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

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



$$\int_{A_1} \int_{A_2} \dots \int_{A_1} \int_{A_2} \dots$$

$$\begin{array}{ccc} a_{11} & a_{12} & a_{13} \\ a_{21} & . & . & . & . & . & . \end{array}$$

$$\begin{pmatrix} D_1 t & -a_{12} t_2 & \dots & -a_{1n} t_n \\ -a_{21} t_1 & D_2 t & \dots & -a_{2n} t_n \\ -a_{31} t_1 & -a_{n2} t_2 & \dots & D_n t \\ -a_{n1} t_1 & -a_{n2} t_2 & \dots & D_n t \end{pmatrix}$$

$\ddot{a}$

$\overset{\cdot\cdot\cdot\cdot}{a}$

$$\sqrt[\beta]{x} \sqrt[\beta]{x}$$

$$\frac{a+b}{c-d} \qquad \binom{n}{x}$$

$$\frac{a+b}{c-d} \qquad \binom{n}{x}$$

$$\frac{a+b}{c-d} \qquad \binom{n}{x}$$

$$\frac{2}{\sqrt{2}+\frac{1}{\sqrt{2}+\frac{1}{\sqrt{2}+\frac{1}{\sqrt{2}+\cdots}}}}$$

$$X^*_X$$

$$^b\sum_c^d$$

$$\sum_c^b\int$$

$$\gcd(c,m\bmod n)$$

$$x=y \pmod b$$

$$x=y \mod c$$

$$x=y \, (d)$$

$$\int f d\mu \quad \iint f d\mu \quad \iiint f d\mu \quad \iiiii f d\mu \int \cdots \int f d\mu \, . \, . \, . \quad (28)$$

$$\sqrt{a}+\sqrt{y}+\sqrt{d} \qquad \sqrt{a}+\sqrt{y}+\sqrt{d}$$

$$\overrightarrow{a\alpha+\beta+\gamma}$$

$$\overrightarrow{a\alpha+\beta+\gamma}$$

$$\overleftarrow{a\alpha+\beta+\gamma}$$

$$\overleftarrow{a\alpha+\beta+\gamma}$$

$$\overleftarrow{\frac{\alpha}{\beta}}$$

$$\begin{array}{ccc} F(x) & \xleftarrow[n\rightarrow\infty]{} & G(x) \\ n\rightarrow\infty\downarrow m\sim n & & \uparrow m\rightarrow\infty \\ \mathcal{F}(x) & \equiv & \mathcal{G} \end{array}$$