

$$y=2x-1$$

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

$$x^2-1$$

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

$$2^{2^22^{2^22^2}}$$

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

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

$$\Gamma\Pi\Phi\hbox{\rm 是}\Gamma\Pi\Phi\hbox{\rm 和}\hbox{\rm 不同的}.$$

$$\Psi\Theta\Omega\hbox{\rm 是}\Psi\Theta\Omega\hbox{\rm 和}\hbox{\rm 不同的}.$$

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

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

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

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

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

$$\ldots (...)$$

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

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

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

$$\mathcal{S}\hbox{\rm 是}\mathcal{S}=\{A\mid A\supset\mathcal{T}\}\hbox{\rm 的}\hbox{\rm 集合}.$$

$$\emptyset,\emptyset$$

$$\not\exists,\not\subset,\not\prec$$

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

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

$$\limsup_n$$

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

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

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

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$$aX + \beta + \gamma$$

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

$$A A A A A$$

$$a + b$$

$$\overline{c - d}$$

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

$$1 + \frac{c-a}{1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{1+x}}}}}$$

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

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

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

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

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

$$\int f(x)dx$$

$$J_0$$

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

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

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

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

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

$$\sum_{i,j=1,ni\neq j}\binom{2n}{n},\,2n\mathbf{C}_n\\ \binom{2n}{n}$$

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

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

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

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

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

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

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

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

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

$$\mathfrak{5}$$

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

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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

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

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

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

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

곱하기 $A_1 A_2 \cdots, A_1 A_2 \cdots$

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

“다음의 행렬 $\begin{bmatrix} a & b \\ c & d \end{bmatrix}$ 은 문장 내에서 쓴 작은 행렬이다.”

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

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

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

$$\overleftarrow{a} \quad \overrightarrow{a} \quad \overleftrightarrow{a} \quad \overleftarrow{a} \quad \overrightarrow{a} \quad \overleftrightarrow{a}$$

\ddot{a}

\ddot{a}

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

$$A \xleftarrow[\mu]{n \rightarrow \infty} B \xrightarrow[\sigma]{n \rightarrow -\infty} C \xrightarrow[\delta]{} D$$

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

$\eta \leq N(\mu, \sigma^2) + O_p(n)$

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

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

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

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

$$X^*_X$$

$$^b\sum_c^d$$

$$\sum_c^b\int$$

$$\begin{array}{l} \gcd(c,m \bmod n) \\ x=y \pmod{b} \\ x=y \pmod{c} \\ x=y \pmod{d} \end{array}$$