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فرمول نويسي

 $a=b+c,\quad d=e-fe=mc^{\rm t},\qquad e=mghe=mc^{\rm t},\ e=mghe=mc^{\rm t},\qquad e=a+b$

$$\alpha, \beta, \gamma, \omega, \eta, \rho, \phi, \theta, \nu, \kappa, \sigma, \int, \phi, \psi$$

$$\Sigma, \Theta, \Phi, \Psi$$

$$\Sigma, \Sigma$$

$$\phi, \varphi, \epsilon, \varepsilon$$

$$a = A^{XYZ}, \quad b = B_{XYZ}, \qquad c = a^{\Upsilon\Upsilon} + b^{\Upsilon}, \alpha^{\gamma} = \beta^{\Upsilon\circ\circ} = c^{\Upsilon}$$

$$\sin^{7} x + \cos^{7} x = 1$$
, $\sec^{7} x + \csc^{7} x$

$$x_1 + x_{11} + x_{1+i}$$

$$\mathbf{x} = (x_1 + x_7 + \dots + x_{1\cdots})$$

$$a = \sqrt[5]{x^{\mathsf{Y}} + y^{\mathsf{Y}}}, \quad b = \sqrt{a + b - c}$$

$$\mathbf{a} = \sqrt[r]{\mathbf{Y}} + \sqrt{\mathbf{A}\mathbf{S}} + \sqrt[r]{x+1}$$

$$a = \frac{x+1}{x^{\mathbf{Y}} - \mathbf{Y}}$$

$$\frac{\sin^{\mathbf{Y}}(\alpha - \mathbf{1}) + x^{\mathbf{Y}}}{\sqrt{x^{\beta} - \mathbf{Y} \frac{m^{\mathbf{Y}} + n_{\mathbf{1}}}{q_{\mathbf{1}}q_{\mathbf{1}}}}}$$

$$\frac{\sin^{\mathbf{Y}}(\alpha - \mathbf{1}) + x^{\mathbf{Y}}}{\sqrt{x^{\beta} - \mathbf{Y} \frac{m^{\mathbf{Y}} + n_{\mathbf{1}}}{q_{\mathbf{1}}q_{\mathbf{1}}}}}$$

$$\frac{\mathbf{1}}{\mathbf{Y}} \frac{x - \mathbf{1}}{x + \mathbf{Y}}$$

$$\sqrt{\frac{1}{k} \log_b x}$$

$$\mathbf{x} = (x_1 + x_7 + \dots + x_{1 \cdot \cdot \cdot}), \quad \mathbf{y} = (x_1 + x_7 + \dots + x_{1 \cdot \cdot \cdot}), \quad \mathbf{y} = (x_1 + x_7 + \dots + x_{1 \cdot \cdot \cdot})$$

$$x = A.B, \quad y = A \cdot B$$

$$A = \int (x^{\mathsf{Y}} + \mathsf{Y}x - \mathsf{Y}) \, \mathrm{d}x$$

$$B = \int_{-\infty}^{\infty} \sin^{\mathsf{Y}} x \, \mathrm{d}x,$$

$$C = \iiint a^{\mathsf{Y}} + b^{\mathsf{Y}} \, \mathrm{d}x, \quad C = \int \cdots \int a^{\mathsf{Y}} + b^{\mathsf{Y}} \, \mathrm{d}x$$

$$D = \int_{\circ}^{\mathsf{Y} \circ} \int_{\mathsf{Y}}^{\mathsf{Y} \circ \circ} f(x, y) \, \mathrm{d}x \, \mathrm{d}y$$

$$\int_{\circ}^{\infty} \frac{\sin x}{\sqrt{\mathsf{Y}x - \ln x + \mathsf{Y}}} \, \mathrm{d}x$$

$$\lim_{x \to \infty} f(x), \quad \lim_{x \to \infty} \frac{x - 1}{x^{\gamma} - 1}$$

$$\lim_{x \to \frac{\pi}{1}} \int_{0}^{t} \frac{x - 1}{\cos x + \tan x} dx$$

$$\bar{x} = \frac{x_1 + x_2 + \dots + x_n}{n}$$

$$\hat{x} = a + b$$

$$\hat{x}y\bar{z} = a + b$$

$$\hat{x}y\bar{z} = a + b$$

$$\hat{x} = a - b$$

$$\hat{x}y\bar{y}z = a^{\gamma} - b$$

$$\bar{x}y\bar{y}z\bar{a} = \frac{\gamma}{\gamma}, \quad \underline{w}xyz\bar{a}$$

$$\dot{u} + \gamma u = f$$

$$\ddot{u} - \Delta u = f, \ \ddot{u}, \ \ddot{u}$$

$$\vec{x} = a^{\gamma}$$

$$\vec{x} = a^{\gamma}$$

$$\forall x = a + b, \ trewq = a - b, \ qwert = a \times b$$

$$qwert = a + b, \ trewq = a - b$$

$$\hat{x} = \underbrace{x_1 + x_2 + \dots + x_n}_{n}$$

$$\bar{x} = \frac{x_1 + x_1 + \dots + x_n}{n}$$

$$\underline{y_1 \cdot y_1 \cdot \dots \cdot y_m}$$

$$\lim_{x \to \infty} f(x) = \circ \xrightarrow{\underset{x \to \infty}{\text{lim}}} B, \quad \lim_{x \to \infty} f(x) = \circ \xleftarrow{\underset{x \to \infty}{\text{lim}}} B$$

$$\lim_{x \to \infty} f(x) = \circ \xrightarrow{\underset{x \to \infty}{\text{lim}}} \frac{f(x)}{we \text{ know that } \dots}} B$$

$$\sum_{n = 1} \sum_{x = 1}^{n} \frac{x - x_i}{we \text{ know that } \dots} B$$

$$\prod_{i = 1}^{n} \frac{x - x_i}{x_i + x_j}$$

$$\lim_{x \to \infty} f(x) \xrightarrow{\underset{x \to \infty}{\text{lim}}} f(x) \xrightarrow{\underset{x \to \infty}{\text{lim}}} f(x)$$

$$\lim_{x \to \infty} f(x) \xrightarrow{\underset{x \to \infty}{\text{lim}}} \frac{x - x_j}{x_i - x_j}$$

$$L_i(x) = \prod_{\substack{j = \infty, i \neq j \\ j \neq i}}^{n} \frac{x - x_j}{x_i - x_j}$$

$$L_i(x) = \prod_{\substack{j = \infty, i \neq j \\ j \neq i}}^{n} \frac{x - x_j}{x_i - x_j}$$

$$\sum_{j=k}^{\stackrel{\circ}{}_{0}} anything$$

 $\int \sin x + \cos x \, \mathrm{d}x$: به شکل روبرو است به جزء برای $\int u \, \mathrm{d}v \, \mathrm{d}v$ به شکل روبرو است

۱ مقدمات

$$\int \sin x + \cos x \, \mathrm{d}x \tag{1}$$

$$L_i(x) = \prod_{j=\circ, i \neq j}^n \frac{x - x_j}{x_i - x_j} \tag{7}$$

$$\lim_{x \to \circ} f(x) \stackrel{Hop}{=\!\!\!=\!\!\!=} \circ, \quad \stackrel{**}{X} \tag{(7)}$$

با توجه به فرمول (١) مي دانيم:

۲ انواع فرمول های یکسان

$$L_i(x) = \prod_{j=\bullet, i \neq j}^{n} \frac{x - x_j}{x_i - x_j}$$

$$L_i(x) = \prod_{j=\circ, i \neq j}^{n} \frac{x - x_j}{x_i - x_j}$$

$$L_i(x) = \prod_{j=0, i \neq j}^{n} \frac{x - x_j}{x_i - x_j}$$

۳ فرمول نویسی چند خطی

$$a = b$$
$$= a^{\mathsf{Y}} + b$$
$$= \sin x$$

$$L_i(x) = \prod_{\substack{j=\circ\\j\neq i}}^n \frac{x - x_j}{x_i - x_j}$$
$$= \frac{(x - x_\circ)(x - x_1)\cdots(x - x_n)}{(x_i - x_1)\cdots(c_i - x_n)}$$

$$L_{i}(x) = \prod_{\substack{j=\circ\\j\neq i}}^{n} \frac{x - x_{j}}{x_{i} - x_{j}}$$

$$= \frac{(x - x_{\circ})(x - x_{1})\cdots(x - x_{n})}{(x_{i} - x_{1})\cdots(x_{i} - x_{n})} \tag{(4)}$$

همانطور که در رابطه (۲) دیدیم ...