



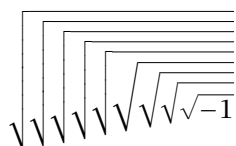
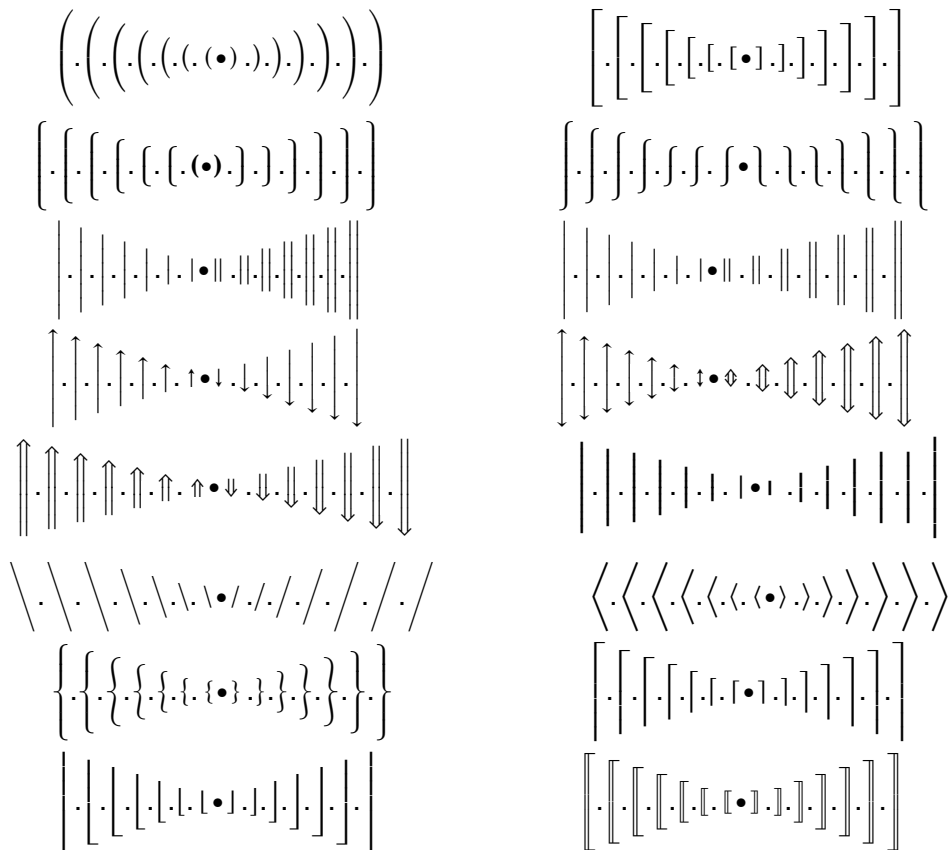
(Display style) Buildrel:  $\xrightarrow{\alpha\beta}$ , and  $\stackrel{\text{def}}{=}$ .

(Text style) Buildrel:  $\xrightarrow{\alpha\beta}$ , and  $\stackrel{\text{def}}{=}$ .

(Script style) Buildrel:  $\xrightarrow{\alpha\beta}$ , and  $\stackrel{\text{def}}{=}$ .

(Scriptscript style) Buildrel:  $\xrightarrow{\alpha\beta}$ , and  $\stackrel{\text{def}}{=}$ .

Delimiters:



(Display style) Punctuation:  $f:A \rightarrow B$ ,  $L(a,b;c;x,y;z)$ ,  $a.b : c,d, \dots$ , and  $x_1 + \dots + x_n$ , don't forget  $f(x_1, \dots, x_n)$ .

(Text style) Punctuation:  $f:A \rightarrow B$ ,  $L(a,b;c;x,y;z)$ ,  $a.b : c,d, \dots$ , and  $x_1 + \dots + x_n$ , don't forget  $f(x_1, \dots, x_n)$ .

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Fractions:  $\frac{Z}{W}$   $\frac{Z}{W}$   $\left(\frac{Z}{W}\right)$   $\frac{Z}{W}$   $\left\langle \frac{Z}{W} \right\rangle$   $\left[ \frac{Z}{W} \right]$   $\left\{ \frac{Z}{W} \right\}$

Fractions:  $\frac{g}{d}$   $\frac{g}{d}$   $\left(\frac{g}{d}\right)$   $\frac{g}{d}$   $\left\langle \frac{g}{d} \right\rangle$   $\left[ \frac{g}{d} \right]$   $\left\{ \frac{g}{d} \right\}$

Fractions:  $\frac{b}{a}$   $\frac{b}{a}$   $\left(\frac{b}{a}\right)$   $\frac{b}{a}$   $\left\langle \frac{b}{a} \right\rangle$   $\left[ \frac{b}{a} \right]$   $\left\{ \frac{b}{a} \right\}$

(Display style) Roots:  $\sqrt{2i}$ ,  $\sqrt[3]{2}$ ,  $\sqrt[n]{x^n + y^n}$ ,  $\sqrt{a + \sqrt{d} + \sqrt{y}}$ , and  $\sqrt[n+1]{Q}$ .

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Filling:  $\bar{o}$   $\underline{o}$   $\hat{o}$   $\tilde{o}$   $\overline{\overline{o}}$   $\underbrace{o}$

Filling:  $\overline{A + \dots - Q - \dots + g}$   $\underline{A + \dots - Q - \dots + g}$   $\overline{\overline{A + \dots - Q - \dots + g}}$   $\underbrace{A + \dots - Q - \dots + g}$

Accents:  $-\hat{A} + \hat{q} - \check{A} + \check{q} - \tilde{A} + \tilde{q} - \acute{A} + \acute{q} - \grave{A} + \grave{q} - \ddot{A} + \ddot{q} - \textcircled{A} + \textcircled{q} - \bar{A} + \bar{q} - \vec{A} + \vec{q}$

$\hat{A}\hat{B}\hat{C}\hat{D}\hat{E}\hat{F}\hat{G}\hat{H}\hat{I}\hat{J}\hat{K}\hat{L}\hat{M}\hat{N}\hat{O}\hat{P}\hat{Q}\hat{R}\hat{S}\hat{T}\hat{U}\hat{V}\hat{W}\hat{X}\hat{Y}\hat{Z}$   $\acute{a}\acute{b}\acute{c}\acute{d}\acute{e}\acute{f}\acute{g}\acute{h}\acute{i}\acute{j}\acute{k}\acute{l}\acute{m}\acute{n}\acute{o}\acute{p}\acute{q}\acute{r}\acute{s}\acute{t}\acute{u}\acute{v}\acute{w}\acute{x}\acute{y}\acute{z}$

$\hat{\Gamma}\hat{\Delta}\hat{\Lambda}\hat{\Xi}\hat{\Pi}\hat{\Sigma}\hat{\Upsilon}\hat{\Phi}\hat{\Psi}\hat{\Omega}$   $\hat{\Gamma}\hat{\Delta}\hat{\Lambda}\hat{\Xi}\hat{\Pi}\hat{\Sigma}\hat{\Upsilon}\hat{\Phi}\hat{\Psi}\hat{\Omega}$

$\hat{\alpha}\hat{\beta}\hat{\gamma}\hat{\delta}\hat{\epsilon}\hat{\zeta}\hat{\eta}\hat{\theta}\hat{\iota}\hat{\kappa}\hat{\lambda}\hat{\mu}\hat{\nu}\hat{\xi}\hat{\pi}\hat{\rho}\hat{\sigma}\hat{\tau}\hat{\upsilon}\hat{\phi}\hat{\chi}\hat{\psi}\hat{\omega}\hat{\epsilon}\hat{\theta}\hat{\rho}\hat{\zeta}\hat{\phi}$   $\hat{\delta}\hat{\ell}\hat{i}\hat{j}\hat{\phi}$

$\hat{A}\hat{B}\hat{C}\hat{D}\hat{E}\hat{F}\hat{G}\hat{H}\hat{I}\hat{J}\hat{K}\hat{L}\hat{M}\hat{N}\hat{O}\hat{P}\hat{Q}\hat{R}\hat{S}\hat{T}\hat{U}\hat{V}\hat{W}\hat{X}\hat{Y}\hat{Z}$

$x + y - z$ ,  $x + y * z$ ,  $z * y / z$ ,  $(x + y)(x - y) = x^2 - y^2$ ,

$x \times y \cdot z = [x y z]$ ,  $x \circ y \bullet z$ ,  $x \cup y \cap z$ ,  $x \sqcup y \sqcap z$ ,

$x \vee y \wedge z$ ,  $x \pm y \mp z$ ,  $x = y / z$ ,  $x := y$ ,  $x \leq y \neq z$ ,  $x \sim y \simeq z$   $x \equiv y \neq z$ ,  $x \subset y \subseteq z$

$\sin 2\theta = 2 \sin \theta \cos \theta$ ,  $O(n \log n \log n)$ ,  $\Pr(X > x) = \exp(-x/\mu)$ ,

$(x \in A(n) \mid x \in B(n))$ ,  $\bigcup_n X_n \parallel \bigcap_n Y_n$

In text matrices  $\begin{pmatrix} 1 & 1 \\ 0 & 1 \end{pmatrix}$  and  $\begin{pmatrix} a & b & c \\ 1 & m & n \end{pmatrix}$

$$a_0 + \frac{1}{a_1 + \frac{1}{a_2 + \frac{1}{a_3 + \frac{1}{a_4}}}}$$

$$\binom{p}{2} x^2 y^{p-2} - \frac{1}{1-x} \frac{1}{1-x^2} = \frac{a+1}{b} / \frac{c+1}{d}.$$

$$\sqrt{1 + \sqrt{1 + \sqrt{1 + \sqrt{1 + \sqrt{1 + x}}}}}$$

$$\left( \frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2} \right) |\varphi(x + iy)|^2 = 0$$

$$\pi(n) = \sum_{m=2}^n \left[ \left( \sum_{k=1}^{m-1} \lfloor (m/k) / \lceil m/k \rceil \right)^{-1} \right].$$

$$\int_0^\infty \frac{t - ib}{t^2 + b^2} e^{iat} dt = e^{ab} E_1(ab), \quad a, b > 0.$$

$$A = \begin{pmatrix} x - \lambda & 1 & 0 \\ 0 & x - \lambda & 1 \\ 0 & 0 & x - \lambda \end{pmatrix}.$$

$$\begin{pmatrix} a & b & c \\ d & e & f \end{pmatrix} \begin{pmatrix} u & x \\ v & y \\ w & z \end{pmatrix}$$

$$A = \begin{pmatrix} a_{11} & a_{12} & \dots & a_{1n} \\ a_{21} & a_{22} & \dots & a_{2n} \\ \vdots & \vdots & \ddots & \vdots \\ a_{m1} & a_{m2} & \dots & a_{mn} \end{pmatrix}$$

$$M = \begin{matrix} & C & I & C' \\ C & \begin{pmatrix} 1 & 0 & 0 \\ b & 1 - b & 0 \\ 0 & a & 1 - a \end{pmatrix} \\ C' & \end{matrix}$$

$$\sum_{n=0}^{\infty} a_n z^n \quad \text{converges if} \quad |z| < \left( \limsup_{n \rightarrow \infty} \sqrt[n]{|a_n|} \right)^{-1}.$$

$$\frac{f(x + \Delta x) - f(x)}{\Delta x} \rightarrow f'(x) \quad \text{as } \Delta x \rightarrow 0.$$

$$\|u_i\| = 1, \quad u_i \cdot u_j = 0 \quad \text{if } i \neq j.$$

The confluent image of  $\left\{ \begin{matrix} \text{an arc} \\ \text{a circle} \\ \text{a fan} \end{matrix} \right\}$  is  $\left\{ \begin{matrix} \text{an arc} \\ \text{an arc or a circle} \\ \text{a fan or an arc} \end{matrix} \right\}$ .

$$\begin{aligned} T(n) &\leq T(2^{\lceil \lg n \rceil}) \leq c(3^{\lceil \lg n \rceil} - 2^{\lceil \lg n \rceil}) \\ &< 3c \cdot 3^{\lg n} \\ &= 3c n^{\lg 3}. \end{aligned}$$

$$\left\{ \begin{matrix} \alpha = f(z) \\ \beta = f(z^2) \\ \gamma = f(z^3) \end{matrix} \right\} \quad \left\{ \begin{matrix} x = \alpha^2 - \beta \\ y = 2\gamma \end{matrix} \right\}.$$

$$(x + y)(x - y) = x^2 - xy + yx - y^2; \quad (3)$$

$$= x^2 - y^2; \quad (4)$$

$$(x + y)^2 = x^2 + 2xy + y^2. \quad (5)$$

$$\begin{aligned}
\left(\int_{-\infty}^{\infty} e^{-x^2} dx\right)^2 &= \int_{-\infty}^{\infty} \int_{-\infty}^{\infty} e^{-(x^2+y^2)} dx dy \\
&= \int_0^{2\pi} \int_0^{\infty} e^{-r^2} dr d\theta \\
&= \int_0^{2\pi} \left(-\frac{e^{-r^2}}{2} \Big|_{r=0}^{r=\infty}\right) d\theta \\
&= \pi.
\end{aligned} \tag{11}$$

$$\prod_{k \geq 0} \frac{1}{(1 - q^k z)} = \sum_{n \geq 0} z^n / \prod_{1 \leq k \leq n} (1 - q^k).$$

$$\sum_{\substack{0 < i \leq m \\ 0 < j \leq n}} p(i, j) \neq \sum_{i=1}^p \sum_{j=1}^q \sum_{k=1}^r a_{ij} b_{jk} c_{ki} \neq \sum_{\substack{1 \leq i \leq p \\ 1 \leq j \leq q \\ 1 \leq k \leq r}} a_{ij} b_{jk} c_{ki}$$

$$\max_{1 \leq n \leq m} \log_2 P_n \quad \text{and} \quad \lim_{x \rightarrow 0} \frac{\sin x}{x} = 1$$

$$p_1(n) = \lim_{m \rightarrow \infty} \sum_{v=0}^{\infty} (1 - \cos^{2m}(v!^n \pi/n))$$

$$\hat{s}, \widehat{ss}, \widehat{sss}, \widehat{ssss}, \widehat{sssss}, \widehat{f}, \widehat{ff}, \widehat{fff}, \widehat{ffff}, \widehat{fffff}$$

$$\tilde{s}, \widetilde{ss}, \widetilde{sss}, \widetilde{ssss}, \widetilde{sssss}, \widetilde{f}, \widetilde{ff}, \widetilde{fff}, \widetilde{ffff}, \widetilde{fffff}$$

$$\int f(x) dx \quad \int f(x) dx \quad \int f(x) dx \quad \int f(x) dx \quad \int f(x) dx$$

$$\int_0^1 f(x) dx = \frac{\sqrt{3}}{2} \neq \frac{\sqrt{2\pi}}{\sqrt{3}}$$

$$\sqrt{x}, \sqrt{\pi}, \sqrt{x^2}, \sqrt{\frac{a}{b}}, \sqrt{\frac{a^2 + b^2}{a^2 - b^2}}, \sqrt{\sum_{i \neq j}^{n < m} \frac{a^2 + b^2}{a^2 - b^2}}$$

$$\frac{(x + 10y)(x - 10y)}{x^2 - 100y^2} = 1 + \frac{a + \frac{x}{y} + c}{2 + \frac{5^2}{\epsilon_2} - 9}$$

$$30^\circ, 60^\circ, 90^\circ, 120^\circ$$

$$\sum_{i=1}^n \int_0^x f(x) dx = \frac{n+1}{\sqrt{a^n + b^n}} = \frac{\pi}{2}$$

$$\overbrace{x+y} = x+y = x_{n-2}^i$$

$$\overline{x+y} = x+y = x_n^{-2}$$

$$\left( \left( \left( \left( \left( (x)^2 \right)^2 \right)^2 \right)^2 \right)^2 \right)^2 \quad \left[ \left[ \left[ \left[ \left[ [x]^2 \right]^2 \right]^2 \right]^2 \right]^2 \right]^2$$

$$\begin{pmatrix} A & B & C & D & E & F \\ G & H & H & I & J & K \\ L & M & N & O & P & Q \\ R & S & T & U & V & W \end{pmatrix} = \begin{bmatrix} A & B & C & D & E & F \\ G & H & H & I & J & K \\ L & M & N & O & P & Q \\ R & S & T & U & V & W \end{bmatrix}.$$

$$\begin{pmatrix} \left( \begin{pmatrix} a & b \\ c & d \end{pmatrix} \begin{pmatrix} e & f \\ g & h \end{pmatrix} \right) & \left( \begin{pmatrix} a & b \\ c & d \end{pmatrix} \begin{pmatrix} e & f \\ g & h \end{pmatrix} \right) \\ \left( \begin{matrix} 0 & (i \ j) \\ & (k \ l) \end{matrix} \right) & \left( \begin{matrix} 0 & (i \ j) \\ & (k \ l) \end{matrix} \right) \\ \left( \begin{pmatrix} a & b \\ c & d \end{pmatrix} \begin{pmatrix} e & f \\ g & h \end{pmatrix} \right) & \left( \begin{pmatrix} a & b \\ c & d \end{pmatrix} \begin{pmatrix} e & f \\ g & h \end{pmatrix} \right) \\ \left( \begin{matrix} 0 & (i \ j) \\ & (k \ l) \end{matrix} \right) & \left( \begin{matrix} 0 & (i \ j) \\ & (k \ l) \end{matrix} \right) \end{pmatrix}.$$

$n^{\text{th}}$  root

$$\mathbf{S}^{-1}\mathbf{TS} = \mathbf{dg}(\omega_1, \dots, \omega_n) = \Lambda$$

$$\Pr(m = n \mid m + n = 3)$$

$$\sin 18^\circ = \frac{1}{4}(\sqrt{5} - 1)$$

$$k = 1.38 \times 10^{-16} \text{ erg/}^\circ\text{K}$$

$$\bar{\Phi} \subset NL_1^*/N = \bar{L}_1^* \subseteq \dots \subseteq NL_n^*/N = \bar{L}_n^*$$

$$I(\lambda) = \iint_D g(x, y) e^{i\lambda h(x, y)} dx dy$$

$$\int_0^1 \dots \int_0^1 f(x_1, \dots, x_n) dx_1 \dots dx_n$$

$$x_{2m} \equiv \begin{cases} Q(X_m^2 - P_2 W_m^2) - 2S^2 & (m \text{ odd}) \\ P_2^2(X_m^2 - P_2 W_m^2) - 2S^2 & (m \text{ even}) \end{cases} \pmod{N}.$$

$$(1 + x_1 z + x_1^2 z^2 + \dots) \dots (1 + x_n z + x_n^2 z^2 + \dots) = \frac{1}{(1 - x_1 z) \dots (1 - x_n z)}.$$

$$\prod_{j \geq 0} \left( \sum_{k \geq 0} a_{jk} z^k \right) = \sum_{n \geq 0} z^n \left( \sum_{\substack{k_0, k_1, \dots \geq 0 \\ k_0 + k_1 + \dots = n}} a_{0k_0} a_{1k_1} \dots \right).$$

$$\frac{(n_1 + n_2 + \dots + n_m)!}{n_1! n_2! \dots n_m!} = \binom{n_1 + n_2}{n_2} \binom{n_1 + n_2 + n_3}{n_3} \dots \binom{n_1 + n_2 + \dots + n_m}{n_m}.$$

