

	As rendered by TeX	As rendered by your browser
1	$x^2y^2$	$x\ 2\ y\ 2$
2	${}_2F_3$	$F\ 3\ 2$
3	$\frac{x+y^2}{k+1}$	$x+y\ 2\ k+1$
4	$x+y^{\frac{2}{k+1}}$	$x+y\ 2\ k+1$
5	$\frac{a}{b/2}$	$a\ b\ /\ 2$
6	$a_0 + \frac{1}{a_1 + \frac{1}{a_2 + \frac{1}{a_3 + \frac{1}{a_4}}}}$	$a\ 0 + 1\ a\ 1 + 1\ a\ 2 + 1\ a\ 3 + 1\ a\ 4$
7	$a_0 + \frac{1}{a_1 + \frac{1}{a_2 + \frac{1}{a_3 + \frac{1}{a_4}}}}$	$a\ 0 + 1\ a\ 1 + 1\ a\ 2 + 1\ a\ 3 + 1\ a\ 4$
8	$\binom{n}{k/2}$	$(n\ k\ /\ 2)$
9	$\binom{p}{2}x^2y^{p-2} - \frac{1}{1-x}\frac{1}{1-x^2}$	$(p\ 2)x\ 2\ y\ p - 2 - 1\ 1 - x\ 1\ 1 - x\ 2$
10	$\sum_{\substack{0 \leq i \leq m \\ 0 < j < n}} P(i, j)$	$\sum 0 \leq i \leq m\ 0 < j < n\ P(i, j)$

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$$x^{2y}$$

$$x^2y$$

12

$$\sum_{i=1}^p \sum_{j=1}^q \sum_{k=1}^r a_{ij} b_{jk} c_{ki}$$

$$\sum_{i=1}^p \sum_{j=1}^q \sum_{k=1}^r a_{ij} b_{jk} c_{ki}$$

13

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

$$1+1+1+1+1+1+1+x$$

14

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

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

15

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

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

16

$$\int_1^x \frac{dt}{t}$$

$$\int 1x\,dt\,t$$

17

$$\iint_D dx\,dy$$

$$\int\!\!\!\int_D dx\,dy$$

18

$$f(x) = \begin{cases} 1/3 & \text{if } 0 \leq x \leq 1; \\ 2/3 & \text{if } 3 \leq x \leq 4; \\ 0 & \text{elsewhere.} \end{cases}$$

$$f(x) = \{ 1/3 \text{ if } 0 \leq x \leq 1 ; 2/3 \text{ if } 3 \leq x \leq 4 ; 0 \text{ elsewhere.}$$

19

$$\overbrace{x + \cdots + x}^{k \text{ times}}$$

$$x + \ldots + x \text{ } k \text{ times}$$

20

$$y_{x^2}$$

$$y \times 2$$

21

$$\sum_{p \text{ prime}} f(p) = \int_{t>1} f(t) \, d\pi(t)$$

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$$\overbrace{\{a, \dots, a, b, \dots, b\}}^{k \text{ } a'\text{'s} \quad l \text{ } b'\text{'s}}$$

$k+l$  elements

$$\{(a, \dots, a \sqsubseteq k \text{ } a'\text{'s}, (b, \dots, b \sqsubseteq \ell \text{ } b'\text{'s} \sqsubseteq k + \ell \text{ elements})\}$$

23

$$\left(\begin{pmatrix} a & b \\ c & d \end{pmatrix} \quad \begin{pmatrix} e & f \\ g & h \end{pmatrix}\right)$$

$0 \quad \begin{pmatrix} i & j \\ k & l \end{pmatrix}$

$$((a \, b \, c \, d)(e \, f \, g \, h)0(i \, j \, k \, l))$$

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$$\det \begin{vmatrix} c_0 & c_1 & c_2 & \dots & c_n \\ c_1 & c_2 & c_3 & \dots & c_{n+1} \\ c_2 & c_3 & c_4 & \dots & c_{n+2} \\ \vdots & \vdots & \vdots & & \vdots \\ c_n & c_{n+1} & c_{n+2} & \dots & c_{2n} \end{vmatrix} > 0$$

$$\det | c \, 0 \, c \, 1 \, c \, 2 \, \dots \, c \, n \, c \, 1 \, c \, 2 \, c \, 3 \, \dots \, c \, n + 1 \, c \, 2 \, c \, 3 \, c \, 4 \, \dots \, c \, n + 2 \, \square \, \square \, \square \, \square \, c \, n \, c \, n + 1 \, c \, n + 2 \, \dots \, c \, 2 \, n | > 0$$

25

$$y_{x_2}$$

$$y \times 2$$

26

$$x_{92}^{31415} + \pi$$

$$x \, 92 \, 31415 + \pi$$

27

$$x_{y_b^a}^{z_c^d}$$

$$x \, y \, b \, a \, z \, c \, d$$

28

$$y_3'''$$

$$y \, 3 \, '''$$