Math examples

Example 1: (EQUATION)

$$\mathbf{P} = \lim_{\Delta v \to 0} \varepsilon \left[\frac{1}{\Delta v} \sum_{i=1}^{N_e \Delta v} d\mathbf{p}_i \right] = N_e d\mathbf{p}_{\text{av}} = N_e Q l_{\text{av}} \tag{1}$$

Example 2: (EQUATION*)

$$\mathbf{P} = \lim_{\Delta v \to 0} \left[\frac{1}{\Delta v} \sum_{i=1}^{N_e \Delta v} d\mathbf{p}_i \right] = N_e d\mathbf{p}_{\text{av}} = N_e Q l_{\text{av}} .,:;?!$$

Example 3: (EQNARRAY)

$$\begin{aligned} \mathbf{P} &= ab + bc \quad \lim_{\Delta v \to 0} \left[\frac{1}{\Delta v} \sum_{i=1}^{N_e \Delta v} d\mathbf{p}_i \right] = N_e d\mathbf{p}_{\text{av}} = N_e Q l_{\text{av}} \\ \mathbf{P} &= ab + bc \quad \lim_{\Delta v \to 0} \left[\frac{1}{\Delta v} \sum_{i=1}^{N_e \Delta v} d\mathbf{p}_i \right] = N_e d\mathbf{p}_{\text{av}} = N_e Q l_{\text{av}} \qquad (2) \\ &= ab + bc \quad \lim_{\Delta v \to 0} \left[\frac{1}{\Delta v} \sum_{i=1}^{N_e \Delta v} d\mathbf{p}_i \right] = N_e d\mathbf{p}_{\text{av}} = N_e Q l_{\text{av}} \qquad (3) \end{aligned}$$

Example 4: (EQNARRAY*)

$$\begin{aligned} \mathbf{P} &= \lim_{\Delta v \to 0} \left[\frac{1}{\Delta v} \sum_{i=1}^{N_e \Delta v} d\mathbf{p}_i \right] = N_e d\mathbf{p}_{\text{av}} = N_e Q l_{\text{av}} \\ \mathbf{P} &= \lim_{\Delta v \to 0} \left[\frac{1}{\Delta v} \sum_{i=1}^{N_e \Delta v} d\mathbf{p}_i \right] = N_e d\mathbf{p}_{\text{av}} = N_e Q l_{\text{av}} \\ &= \lim_{\Delta v \to 0} \left[\frac{1}{\Delta v} \sum_{i=1}^{N_e \Delta v} d\mathbf{p}_i \right] = N_e d\mathbf{p}_{\text{av}} = N_e Q l_{\text{av}} \end{aligned}$$

Example 5: (ALIGN)

$$\begin{aligned} z &= x + y & z &= x + y \\ &= z + y & x &= z + y \end{aligned} \tag{4}$$

$$\begin{aligned} a &= b + c & a &= b + c \\ &= z + y & x &= z + y \end{aligned} \tag{5}$$

$$b = b + c \qquad a = b + c \tag{6}$$

$$c = b + c \qquad a = b + c \tag{7}$$

$$d = b + c \qquad a = b + c\S \tag{8}$$

$$e = b + c \qquad a = b + c \tag{9}$$

Example 6: (ALIGN*)

$$\begin{aligned} z &= x + y & z &= x + y \\ &= z + y & x &= z + y \\ a &= b + c & a &= b + c \end{aligned}$$

Example 7: (GATHER)

$$\begin{gathered} \mathbf{P} = \lim_{\Delta v \to 0} \left[\frac{1}{\Delta v} \sum_{i=1}^{N_e \Delta v} d\mathbf{p}_i \right] = N_e d\mathbf{p}_{\text{av}} = N_e Q l_{\text{av}} \\ \mathbf{P} = \lim_{\Delta v \to 0} \left[\frac{1}{\Delta v} \sum_{i=1}^{N_e \Delta v} d\mathbf{p}_i \right] = N_e d\mathbf{p}_{\text{av}} = N_e Q l_{\text{av}} \end{gathered} \tag{10}$$

Example 8: (GATHER*)

$$\begin{aligned} \mathbf{P} &= \lim_{\Delta v \to 0} \left[\frac{1}{\Delta v} \sum_{i=1}^{N_e \Delta v} d\mathbf{p}_i \right] = N_e d\mathbf{p}_{\text{av}} = N_e Q l_{\text{av}} \\ \mathbf{P} &= \lim_{\Delta v \to 0} \left[\frac{1}{\Delta v} \sum_{i=1}^{N_e \Delta v} d\mathbf{p}_i \right] = N_e d\mathbf{p}_{\text{av}} = N_e Q l_{\text{av}} \end{aligned}$$

Example 9: (ALIGNAT)

$$\begin{aligned} x &= y_1 - y_2 + y_3 - y_5 + y_8 - \dots && \text{by Axiom 1.} \\ &= y' \circ y^* && \text{by Axiom 2.} \\ &= y(0)y' && \text{by Axiom 3.} \end{aligned} \tag{11}$$

Example 10: (ALIGNAT*)

$$\begin{aligned} x &= y_1 - y_2 + y_3 - y_5 + y_8 - \dots && \text{by Axiom 1.} \\ &= y' \circ y^* && \text{by Axiom 2.} \\ &= y(0)y' && \text{by Axiom 3.} \end{aligned}$$

Example 11: (ALIGNED inside EQUATION)

$$\left.\begin{aligned} B' &= -\partial \times E, \\ &= -\partial \times Z, \\ E' &= \partial \times B - 4\pi j, \end{aligned}\right\} \quad \text{Maxwell's equations} \tag{12}$$

Example 12: (ALIGNED inside EQUATION*)

$$\left.\begin{aligned} B' &= -\partial \times E, \\ &= -\partial \times Z, \\ E' &= \partial \times B - 4\pi j, \end{aligned}\right\} \quad \text{Maxwell's equations}$$

Example 13: (SUBARRAY inside EQUATION)

$$\sum_{\substack{i \in \Lambda \\ 0<j<n}} P(i,j) = \partial \times B - 4\pi j, \tag{13}$$

Example 14: (SUBARRAY inside EQUATION)

$$\sum_{\substack{i \in \Lambda \\ 0<j<n}} P(i,j) = \partial \times B - 4\pi j, \tag{14}$$

Example 15: (FLALIGN)

$$a_{11} = b_{11} \qquad a_{12} = b_{12}$$
$$a_{21} = b_{21} \qquad a_{22} = b_{22} + c_{22} \quad (15)$$
$$= b_{21} \qquad a_{22} = b_{22} + c_{22} \quad (16)$$

Example 16: (FLALIGN*)

$$a_{11} = b_{11} \qquad a_{12} = b_{12}$$
$$a_{21} = b_{21} \qquad a_{22} = b_{22} + c_{22}$$
$$= b_{21} \qquad a_{22} = b_{22} + c_{22}$$

Example 17: (MULTILINE)

$$a + b + c + d + e + f$$
$$a + b + c + d + e + f$$
$$a + b + c + d + e + f$$
$$+ i + j + k + l + m + n \quad (17)$$

Example 18: (MULTILINE*)

$$a + b + c + d + e + f$$
$$a + b + c + d + e + f$$
$$a + b + c + d + e + f$$
$$+ i + j + k + l + m + n$$

Example 19: (CASES within EQUATION)

$$\begin{cases} x = 2 & x - 2 \\ x = 2 & x - 2 \\ & x - 2 \end{cases} \quad (18)$$

Example 20: (CASES within EQUATION*)

$$\begin{cases} x = 2 & x - 2 \\ x = 2 & x - 2 \\ & x - 2 \end{cases}$$

Example 21: (bmatrix within EQUATION)

$$\alpha + \gamma_2 = \begin{bmatrix} 1 & 2 - 3 & a + b \\ 1 & 2 - 3 & c + d \\ 1 & 2 - 3 & c + d \end{bmatrix} \tag{19}$$

Example 22:(BMatrix within EQUATION)

$$\alpha + \gamma_2 = \begin{Bmatrix} 1 & 2 - 3 & a + b \\ 1 & 2 - 3 & c + d \\ & 2 - 3 & c + d \end{Bmatrix}$$

Example 23: (vmatrix within EQUATION)

$$\alpha + \gamma_2 = \begin{vmatrix} 1 & 2 - 3 & a + b \\ 1 & 2 - 3 & c + d \\ 1 & 2 - 3 & c + d \end{vmatrix}$$

Example 24: (Vmatrix within EQUATION)

$$\alpha + \gamma_2 = \begin{Vmatrix} 1 & 2 - 3 & a + b \\ 1 & 2 - 3 & c + d \\ 1 & 2 - 3 & c + d \end{Vmatrix}$$

Example 25: (pmatrix within EQUATION)

$$\alpha + \gamma_2 = \begin{pmatrix} 1 & 2 - 3 & a + b \\ 1 & 2 - 3 & c + d \\ 1 & 2 - 3 & c + d \end{pmatrix}$$

Example 26: (SUBEQUATIONS with EQNARRAY)

$$\begin{aligned}
\mathbf{P} &= \lim_{\Delta v \to 0} \left[\frac{1}{\Delta v} \sum_{i=1}^{N_e \Delta v} d\mathbf{p}_i \right] = N_e d\mathbf{p}_{\text{av}} = N_e Q l_{\text{av}} \\
\mathbf{P} &= \lim_{\Delta v \to 0} \left[\frac{1}{\Delta v} \sum_{i=1}^{N_e \Delta v} d\mathbf{p}_i \right] = N_e d\mathbf{p}_{\text{av}} = N_e Q l_{\text{av}} \qquad \text{(20a)} \\
\mathbf{P} &= \lim_{\Delta v \to 0} \left[\frac{1}{\Delta v} \sum_{i=1}^{N_e \Delta v} d\mathbf{p}_i \right] = N_e d\mathbf{p}_{\text{av}} = N_e Q l_{\text{av}} \qquad \text{(20b)}
\end{aligned}$$

Example 27: (SPLIT within EQUATION)

$$\begin{aligned}
x &= x \\
x + y &= 2 \qquad \text{(21)} \\
&= \infty
\end{aligned}$$

Example 28:

int with side limits - msup: $\int^{A} \qquad A + B + C + \cdots + Z$

Example 29:

int with side limits - msub: $\int_{A} \qquad A, B, C, \ldots, Z$

Example 30:

int with side limits - msubsup: $\int_{A}^{B} \qquad A + B + C + \cdots + Z$

Example 31:

sum with limits - munder: $\sum_{A} \qquad A, B, C, \ldots, Z$

Example 32:

sum with limits - mover: $\sum^{b}$

Example 33:

sum with limits - munderover: $\int_{A}^{b}$

Example 34:

underline: $\underline{b + c = d}$

Example 35:

underline: $\underline{b + c + z = y}$

Example 36:

underbrace: $\underbrace{a+b=c^2+y_2(a^2)^2}$

Example 37:

underrightarrow - use accentunder=false attribute: $\underrightarrow{a+b_c+y}$

Example 38:

underleftarrow - use accentunder=false attribute: $\underleftarrow{a+b_c+y}$

Example 39:

underleftrightarrow - use accentunder=false attribute: $\underleftrightarrow{a+b_c+y}$

Example 41:

overline - use accent=true and entity ‾: $\overline{(a+b=c)}$

Example 42:

overbrace - use accent=true and entity ⏞: $\overbrace{a+b+c}$

Example 43:

overrightarrow - use accent=true and entity &c.rarrab;: $\overrightarrow{a+b+c}\quad\vec{a}$

Example 44:

overleftarrow - use accent=true and entity &c.larrab;: $\overleftarrow{a+b+c}$

Example 45:

overleftrightarrow - use accent=true and entity &c.lrarab;: $\overleftrightarrow{a+b+c}$

Example 47: (ARRAY within EQUATION)

$$\sum_{i-1} \alpha + \gamma_2 = \begin{array}{lll} 1 & 2-3 & a+b \\ 1 & 2-3 & c+d \\ & 2-3 & c+d \end{array} \tag{22}$$

Example 48: (SPLIT within EQUATION*)

$$\begin{aligned} x &= x \\ x+y &= 2 \\ &= \infty \end{aligned}$$

Example 49:

$$\begin{array}{rll} & 11 & \text{(carried)} \\ & 11101 & \\ + & \underline{10111} & \\ & 01011 & \end{array}$$

Example 50:

$$= 2\cos(2 \cdot \underbrace{327}_{\substack{\text{average} \\ \text{frequency}}} \pi t)\cos(\underbrace{130}_{\substack{\text{beats per} \\ \text{second}}} \pi t)$$

Example for overset option

$$L_s = \mu_1 h = \mu_1 = \frac{BW}{\omega_o \sqrt{\mu_2 \epsilon_2}} = \frac{\mu_1}{\sqrt{\mu_2 \epsilon_2}} \tag{23}$$

$$\left(\frac{BW}{\omega_o}\right) \overbrace{a+b}^{=} B\left(\frac{BW}{\omega_o}\right) \overset{a}{\underset{b}{=}} B\left(\frac{BW}{\omega_o}\right) \overbrace{=}^{\mu_1=\mu_2} B\left(\frac{BW}{\omega_o}\right) \underbrace{\mu_1 = \mu_2}_{=} B\left(\frac{BW}{\omega_o}\right) \tag{24}$$

$$
\begin{aligned}
A &\xleftarrow{\text{this way}} B \\
B &\xrightarrow[\text{or that way}]{} C \\
a &\underset{under}{\overset{over}{\longleftrightarrow}} b \\
A &\underset{under}{\overset{over}{\Longleftarrow}} B \\
B &\underset{under}{\overset{over}{\Longrightarrow}} C \\
C &\underset{under}{\overset{over}{\Longleftrightarrow}} D \\
E &\underset{under}{\overset{over}{\hookrightarrow}} F \\
F &\underset{under}{\overset{over}{\longmapsto}} G \\
H &\underset{under}{\overset{over}{\nearrow}} I \\
I &\underset{under}{\overset{over}{\searrow}} J \\
J &\underset{under}{\overset{over}{\leftharpoondown}} K \\
K &\underset{under}{\overset{over}{\leftharpoonup}} L \\
L &\underset{under}{\overset{over}{\rightleftharpoons}} M \\
M &\underset{under}{\overset{over}{\nearrow\!\!\!\!\nearrow}} N
\end{aligned}
\tag{25}
$$

Subordinate equation numbering Maxwell's equations:

$$B' = -\nabla \times E, \tag{26a}$$

$$E' = \nabla \times B - 4\pi j, \tag{26b}$$

$$
A = \left(\int_t XXX \right.
\left. YYY \ldots \right)
\tag{27}
$$

$$\boxed{x^2 + y^2 = z^2} \tag{28}$$

$$\lim_{a \to \infty} \frac{1}{a} \tag{29}$$

$$\lim_{a \to \infty} \frac{1}{a} \tag{30}$$

$$\int_a^b x^2 \mathrm{d}x + \int\limits_a^b x^2 \mathrm{d}x + \lim_{\substack{a \to 0 \\ >}} \frac{1}{a} \tag{31}$$

$$\sum{}' C_n = \sum_{n=1}' C_n = \sum_{n=1}' C_n = {}_a^b\sum_c^d = \sum_{n=1}{}' C_n \tag{32}$$

$$\prod_{\substack{1 \leq i \leq n \\ 1 \leq j \leq m}} M_{i,j} \tag{33}$$

$$x = a_0 + \cfrac{1}{a_1 + \cfrac{1}{a_2 + \cfrac{1}{a_3 + a_4}}} \tag{34}$$

$$x = a_0 + \cfrac{1}{a_1 + \cfrac{1}{a_2 + \cfrac{1}{a_3 + a_4}}} \tag{35}$$

$$A \stackrel{!}{=} B; A \stackrel{!}{=} B \tag{36}$$

$$\lim_{x \to 0} \frac{e^x - 1}{2x} \underset{\mathrm{H}}{\overset{\left[\frac{0}{0}\right]}{=}} \lim_{x \to 0} \frac{e^x}{2} = \frac{1}{2} \tag{37}$$

$$z = \overbrace{\underbrace{x}_{\text{real}} + i \underbrace{y}_{\text{imaginary}}}^{\text{complex number}} \tag{38}$$

$$y = a + f(\underbrace{bx}_{\geq 0 \text{ by assumption}}) = a + f(\underbrace{bx}_{\geq 0 \text{ by assumption}}) \tag{39}$$

⟨I1:

acute: $\acute{b}$ $\acute{a}$

⟨I2:

grave: $\grave{b}$ $\grave{a}$

⟨I3:

ddot: $\ddot{b}$ $\ddot{a}$

⟨I4:

tilde: $\tilde{b}$ $\tilde{a}$

⟨I5:

bar: $\bar{b}$ $\bar{a}$

⟨I6:

breve: $\breve{b}$ $\breve{a}$

⟨I7:

hat: $\hat{n}$ $\hat{a}$

⟨I8:

check: $\check{b}$ $\check{a}$

⟨I9:

vec: $\vec{b}$ $\vec{b}$

⟨I10:

widetilde: $\widetilde{b}$ $\widetilde{a+b}$

⟨I11:

widehat: $\widehat{b}$ $\widehat{a+b}$

⟨I12:

different flushbottom figure difficult fflash

⟨I13:

$C+\cdots+L$ example for cdots and lots $C+\ldots+L$

⟨I16⟩ - calligraphic characters

$\mathcal{A}$ $\mathcal{B}$ $\mathcal{C}$ $\mathcal{D}$ $\mathcal{E}$ $\mathcal{F}$ $\mathcal{G}$ $\mathcal{H}$ $\mathcal{I}$ $\mathcal{J}$ $\mathcal{K}$ $\mathcal{L}$ $\mathcal{M}$

$\mathcal{N}$ $\mathcal{O}$ $\mathcal{P}$ $\mathcal{Q}$ $\mathcal{R}$ $\mathcal{S}$ $\mathcal{T}$ $\mathcal{U}$ $\mathcal{V}$ $\mathcal{W}$ $\mathcal{X}$ $\mathcal{Y}$ $\mathcal{Z}$

⟨I17⟩ - bold calligraphic charactes

$\mathcal{A}\ \mathcal{B}\ \mathcal{C}\ \mathcal{D}\ \mathcal{E}\ \mathcal{F}\ \mathcal{G}\ \mathcal{H}\ \mathcal{I}\ \mathcal{J}\ \mathcal{K}\ \mathcal{L}\ \mathcal{M}$

$\mathcal{N}\ \mathcal{O}\ \mathcal{P}\ \mathcal{Q}\ \mathcal{R}\ \mathcal{S}\ \mathcal{T}\ \mathcal{U}\ \mathcal{V}\ \mathcal{W}\ \mathcal{X}\ \mathcal{Y}\ \mathcal{Z}$

⟨I18:

$\mathfrak{A}\ \mathfrak{B}\ \mathfrak{C}\ \mathfrak{D}\ \mathfrak{E}\ \mathfrak{F}\ \mathfrak{G}\ \mathfrak{H}\ \mathfrak{I}\ \mathfrak{J}\ \mathfrak{K}\ \mathfrak{L}\ \mathfrak{M}$

$\mathfrak{N}\ \mathfrak{O}\ \mathfrak{P}\ \mathfrak{Q}\ \mathfrak{R}\ \mathfrak{S}\ \mathfrak{T}\ \mathfrak{U}\ \mathfrak{V}\ \mathfrak{W}\ \mathfrak{X}\ \mathfrak{Y}\ \mathfrak{Z}$

$\mathfrak{a}\ \mathfrak{b}\ \mathfrak{c}\ \mathfrak{d}\ \mathfrak{e}\ \mathfrak{f}\ \mathfrak{g}\ \mathfrak{h}\ \mathfrak{i}\ \mathfrak{j}\ \mathfrak{k}\ \mathfrak{l}\ \mathfrak{m}$

$\mathfrak{n}\ \mathfrak{o}\ \mathfrak{p}\ \mathfrak{q}\ \mathfrak{r}\ \mathfrak{s}\ \mathfrak{t}\ \mathfrak{u}\ \mathfrak{v}\ \mathfrak{w}\ \mathfrak{x}\ \mathfrak{y}\ \mathfrak{z}$

⟨I19:

$\mathfrak{A}\ \mathfrak{B}\ \mathfrak{C}\ \mathfrak{D}\ \mathfrak{E}\ \mathfrak{F}\ \mathfrak{G}\ \mathfrak{H}\ \mathfrak{I}\ \mathfrak{J}\ \mathfrak{K}\ \mathfrak{L}\ \mathfrak{M}$

$\mathfrak{N}\ \mathfrak{O}\ \mathfrak{P}\ \mathfrak{Q}\ \mathfrak{R}\ \mathfrak{S}\ \mathfrak{T}\ \mathfrak{U}\ \mathfrak{V}\ \mathfrak{W}\ \mathfrak{X}\ \mathfrak{Y}\ \mathfrak{Z}$

$\mathfrak{a}\ \mathfrak{b}\ \mathfrak{c}\ \mathfrak{d}\ \mathfrak{e}\ \mathfrak{f}\ \mathfrak{g}\ \mathfrak{h}\ \mathfrak{i}\ \mathfrak{j}\ \mathfrak{k}\ \mathfrak{l}\ \mathfrak{m}$

$\mathfrak{n}\ \mathfrak{o}\ \mathfrak{p}\ \mathfrak{q}\ \mathfrak{r}\ \mathfrak{s}\ \mathfrak{t}\ \mathfrak{u}\ \mathfrak{v}\ \mathfrak{w}\ \mathfrak{x}\ \mathfrak{y}\ \mathfrak{z}$

⟨I20:

$\mathbb{A}\ \mathbb{B}\ \mathbb{C}\ \mathbb{D}\ \mathbb{E}\ \mathbb{F}\ \mathbb{G}\ \mathbb{H}\ \mathbb{I}\ \mathbb{J}\ \mathbb{K}\ \mathbb{L}\ \mathbb{M}$

$\mathbb{N}\ \mathbb{O}\ \mathbb{P}\ \mathbb{Q}\ \mathbb{R}\ \mathbb{S}\ \mathbb{T}\ \mathbb{U}\ \mathbb{V}\ \mathbb{W}\ \mathbb{X}\ \mathbb{Y}\ \mathbb{Z}$

⟨I21:

$\mathbb{A}\ \mathbb{B}\ \mathbb{C}\ \mathbb{D}\ \mathbb{E}\ \mathbb{F}\ \mathbb{G}\ \mathbb{H}\ \mathbb{I}\ \mathbb{J}\ \mathbb{K}\ \mathbb{L}\ \mathbb{M}$

$$\mathbb{N}\quad\mathbb{O}\quad\mathbb{P}\quad\mathbb{Q}\quad\mathbb{R}\quad\mathbb{S}\quad\mathbb{T}\quad\mathbb{U}\quad\mathbb{V}\quad\mathbb{W}\quad\mathbb{X}\quad\mathbb{Y}\quad\mathbb{Z}$$

⟨I27:

$$\frac{\pi}{2}\left[\frac{1}{\Delta v}\sum_{i=1}^{N_e\Delta v} d\mathbf{p}_i\right]$$

⟨I28:

$$10^{\circ}\mathrm{C}\quad 10_{\circ}\mathrm{C}\quad f\circ g$$

⟨I29:

$$\sin x\quad \arcsin x\quad \sinh x\quad \cos x\quad \arccos x\quad \cosh x\quad \tan x$$

$$\arctan x\quad \tanh x\quad \cot x\quad \coth x\quad \sec x\quad \csc x$$

⟨I30:

$$f(x)\quad f'(x)\quad f(1)$$

Example 48:

$$\xleftarrow[a+c]{x^2+2xy+y^2}\quad \xrightarrow[a+c]{x^2+2xy+y^2}\quad \xleftarrow[x+y^2]{\text{maps to}}\quad \xrightarrow[x+y^2]{\text{maps to}}\xleftarrow[a+c]{\text{maps to}}$$

$$\tfrac{1}{2}\quad \frac{1}{2}\quad \binom{1}{2}\quad \binom{1}{2}\quad \sqrt{p(1-p)/n}$$

⟨I22:

$$\mathsf{A}\quad\mathsf{B}\quad\mathsf{C}\quad\mathsf{D}\quad\mathsf{E}\quad\mathsf{F}\quad\mathsf{G}\quad\mathsf{H}\quad\mathsf{I}\quad\mathsf{J}\quad\mathsf{K}\quad\mathsf{L}\quad\mathsf{M}$$

$$\mathsf{N}\quad\mathsf{O}\quad\mathsf{P}\quad\mathsf{Q}\quad\mathsf{R}\quad\mathsf{S}\quad\mathsf{T}\quad\mathsf{U}\quad\mathsf{V}\quad\mathsf{W}\quad\mathsf{X}\quad\mathsf{Y}\quad\mathsf{Z}$$

$$\mathsf{a}\quad\mathsf{b}\quad\mathsf{c}\quad\mathsf{d}\quad\mathsf{e}\quad\mathsf{f}\quad\mathsf{g}\quad\mathsf{h}\quad\mathsf{i}\quad\mathsf{j}\quad\mathsf{k}\quad\mathsf{l}\quad\mathsf{m}$$

$$\mathsf{n}\quad\mathsf{o}\quad\mathsf{p}\quad\mathsf{q}\quad\mathsf{r}\quad\mathsf{s}\quad\mathsf{t}\quad\mathsf{u}\quad\mathsf{v}\quad\mathsf{w}\quad\mathsf{x}\quad\mathsf{y}\quad\mathsf{z}$$

⟨I23⟩ Italic sanserif alphabet

A B C D E F G H I J K L M

N O P Q R S T U V W X Y Z

a b c d e f g h i j k l m

n o p q r s t u v w x y z

⟨I24⟩ bold sanserif alphabet

A B C D E F G H I J K L M

N O P Q R S T U V W X Y Z

a b c d e f g h i j k l m

n o p q r s t u v w x y z

⟨I25⟩ bold-italic sanserif alphabet

A B C D E F G H I J K L M

N O P Q R S T U V W X Y Z

a b c d e f g h i j k l m

n o p q r s t u v w x y z