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Italics correction and kerning: $\big(F^{n}\big)(F) = \left(G\dfrac{Mm}{R^2}\right)^{n+1}$, Big math: $\left(\dfrac{\left(\dfrac{A}{B}+C\right)}{D^{(n-1)}}\right)_2$, parentheses: $\Big(\big((A)+B\big)+C\Big)$, $\Big\{\big\{\{A\}+B\big\}+C\Big\}$, radical: $2\sqrt{3}+\dfrac{2}{\sqrt{5}}+\dfrac{1}{\sqrt{x^2+1}}$. The solution of the equation $ax^2+bx+c=0$ as to x is $x=\dfrac{-b\pm\sqrt{b^2-4ac}}{2a}$. Multiplex radicals: $\sqrt{\sqrt{\sqrt{\sqrt{2}}}}$, limits: $\lim_{n\to\infty}\left(1+\dfrac{1}{n}\right)^n = e$, fraction superscript: $e^{\frac{x}{2}}$, sub-superscript: $a_{n-1}^{2}b$, sub-superscript correction: $a_1^{\frac{n}{2}}$, $\boldsymbol{f}_1^2$, big operator: $\displaystyle\sum_{n=1}^{\infty}\frac{1}{n^2}=\frac{\pi^2}{6}$, integral: $\displaystyle\int_0^1\sqrt{1-x^2}\,\mathrm{d}x$, texts contained in formulae: $\dfrac{\text{Hoge}}{2}+\sqrt{\text{Piyo}}$, tuple: $\langle x,\ y,\ z\rangle$.

$$\frac{\displaystyle\int_0^a x\,\mathrm{d}x\int_0^{\sqrt{a^2-x^2}} r\sqrt{x^2+r^2}\,\mathrm{d}r}{\displaystyle\int_0^a \mathrm{d}x\int_0^{\sqrt{a^2-x^2}} r\sqrt{x^2+r^2}\,\mathrm{d}r}=\frac{2a}{5}$$

Script: $\mathcal{ABCMNOPQRXYZ}$, bold script: $\boldsymbol{\mathcal{ABCMNOPQRXYZ}}$, Fraktur: $\mathfrak{ABCMNOPQRXYZabc}$ bold Fraktur: $\boldsymbol{\mathfrak{ABCMNOPQRXYZabc}}$, double struck: $\mathbb{ABCMNOPQRXYZabc}$.

Typing rule is defined as follows:

$$\frac{\big(\Gamma(x)\equiv\tau\big)}{\Gamma\vdash x:\tau}\qquad\frac{\Gamma\big[x\mapsto\tau_1\big]\vdash M:\tau_2}{\Gamma\vdash(\lambda x:\tau_1.\ M):\tau_1\to\tau_2}$$

$$\frac{\Gamma\vdash M:\tau_1\to\tau_2\qquad\Gamma\vdash N:\tau_1}{\Gamma\vdash MN:\tau_2}$$

$$\frac{A\qquad\dfrac{B\qquad C}{D}}{E}$$

		quick	brown	fox	jumps over
	The				
		the		lazy	dog
A table					