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Italics correction and kerning: $(F^n)(F) = \left(G \frac{Mm}{R^2}\right)^{n+1}$, Big math: $\left(\frac{\left(\frac{A}{B} + C\right)}{D^{(n-1)}}\right)_2$,
 parentheses: $((A) + B) + C$, $\{\{\{A\} + B\} + C\}$, radical: $2\sqrt{3} + \frac{2}{\sqrt{5}} + \frac{1}{\sqrt{x^2 + 1}}$.
 The solution of the equation $ax^2 + bx + c = 0$ as to x is $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$. Multiplex
 radicals: $\sqrt{\sqrt{\sqrt{\sqrt{2}}}}$, limits: $\lim_{n \rightarrow \infty} \left(1 + \frac{1}{n}\right)^n = e$, fraction superscript: $e^{\frac{x}{2}}$, sub-superscript: $a_{n-1}^2 b$,
 sub-superscript correction: $a_1^{\frac{n}{2}}, f_1^2$, big operator: $\sum_{n=1}^{\infty} \frac{1}{n^2} = \frac{\pi^2}{6}$, integral: $\int_0^1 \sqrt{1-x^2} dx$, texts
 contained in formulae: $\frac{\text{Hoge}}{2} + \sqrt{\text{Piyo}}$, tuple: $\langle x, y, z \rangle$.

$$\frac{\int_0^a x dx \int_0^{\sqrt{a^2-x^2}} r \sqrt{x^2+r^2} dr}{\int_0^a dx \int_0^{\sqrt{a^2-x^2}} r \sqrt{x^2+r^2} dr} = \frac{2a}{5}$$

Script: *ABCDEFGHIJKLMNOPQRXYZ*, bold script: ***ABCDEFGHIJKLMNOPQRXYZ***, Fraktur: *ⱤⱥⱦⱧⱨⱩⱪⱫⱬⱭⱮⱯⱰⱱⱲⱳⱴⱵⱶⱷⱸⱹⱺⱻⱼⱽⱾⱿⱽⱾⱿ*, bold Fraktur: ***ⱤⱥⱦⱧⱨⱩⱪⱫⱬⱭⱮⱯⱰⱱⱲⱳⱴⱵⱶⱷⱸⱹⱺⱻⱼⱽⱾⱿⱽⱾⱿ***, double struck: *ⱤⱥⱦⱧⱨⱩⱪⱫⱬⱭⱮⱯⱰⱱⱲⱳⱴⱵⱶⱷⱸⱹⱺⱻⱼⱽⱾⱿⱽⱾⱿ*.

Typing rule is defined as follows:

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

$$\frac{\Gamma \vdash M : \tau_1 \rightarrow \tau_2 \quad \Gamma \vdash N : \tau_1}{\Gamma \vdash MN : \tau_2}$$

$$\frac{A \quad \frac{B \quad C}{D}}{E}$$

A table The quick brown fox jumps over
 the lazy dog