

This document was typeset by using SAT<sub>Y</sub>SF<sub>I</sub>.

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: *ABC MN OP QR XYZ* , bold script: ***ABC MN OP QR XYZ*** , Fraktur: **ABC MN OP QR XYZ** abc, bold Fraktur: **ABC MN OP QR XYZ** abc, double struck: **ABC MN OP QR XYZ** abc.

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