first latex compile LaTeX document.The rect is angled. hard return =¿ new paragragh

soft return =¿ next line
This should be on a new line.

Eqns
Math mode ($2x * 7sin(y)$) root eqns : $A(x) = x^2 + 4x - 3$ gives the area of a shape.

Math modes
inline math mode ($2x * 7sin(y)$)
displayed math mode

$$A(x) = x^2 + 4x - 3$$

Common math functions
1. superscripts

$$2x^3$$

$$2x^{34}$$

$$2x^{3x-4}$$

2. subscripts

$$x_1$$

$$x_{12}$$

$$x_{1_2}$$

$$a_0, a_1, a_2, \ldots, a_{100}$$

3.Greek letters

$$\pi$$

$$\Pi$$

$$\alpha$$

$$A = \pi r^2$$

4.Trig

$$y = \sin x$$

$$y = \cot x$$

$$y = \tan \theta$$

$$y = \sin^{-1} x$$

$$y = \cos^{-1} x$$

5.Log functions

$$y = \log x$$

$$y = -\log_2 p(x)$$

6.roots

$$C = \sqrt{\pi r^2}$$

$$\sqrt[3]{2}$$

$$\sqrt{2}$$

$$\sqrt{x^2 + y^2}$$

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

7.fractions

$$\frac{23}{44}$$

About $\frac{12}{29}$ students make it out of trailing.Vertical spacing.

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$$\sqrt{\frac{x+1}{x+2}}$$

$$\frac{1 + \frac{2}{3x}}{3^{2x}}$$

8.Brackets

Distributive property : $a(b+c) = ab + ac$ for all $a, b, c \in \mathbb{R}$

The set A is $\{1, 2, 3, 4, 8\}$.

The ticket cost $11

$$33\left(\frac{22}{x^2}\right)$$

$$33\left\{\frac{22}{x^2}\right\}$$

$$33\left[\frac{22}{x^2}\right]$$

Angular bracket

$$\left\langle \frac{22}{x^2} \right\rangle$$

$$\left.\frac{dy}{dx}\right|_{x=1}$$

9.Tables

x	2	4	8	10
f(x)	10	11	23	21

x	2	4	8	10
f(x)	$\frac{1}{2}$	11	23	21

Table 1: This is a table of ages of children

kjkj

Table 2: This is a table of work shifts

$f(x)$	working hours
$x > 8$	The work hours increases
$x > 8$	The work hours increases.The work hours increases.The work hours increasesThe work hours increasesThe work hours increasesThe work hours increasesThe work hours increasesThe work hours increasesThe work hours increasesThe work hours increasesThe work hours increasesThe work hours increases

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