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L^AT_EX Document Learning

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Hello, This my first L^AT_EX document!

The rectangle is of length $(x + 2)$ and $(x + 3)$. The Equation

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

gives the area of rectangle

Common mathematical Notation

SuperScript

$$2x^3$$

$$2x^{34}$$

$$2x^{2x+4}$$

$$2x^{3x^{54}}$$

SubScripts

$$x_1$$

$$x_{12}$$

$$x_{1_{2_{3_4}}}$$

$$a_1, a_2, \dots a_{100}$$

Greek Letters

$$\pi$$

$$\Pi$$

$$\alpha$$

$$\aleph$$

$$A = \pi r^2$$

Trigonometry Function

$$y = \sin x$$

$$y = \cos x$$

$$y = \csc \theta$$

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

$$y = \arcsin x$$

Log Function

$$y = \log x$$

$$y = \log_5 x$$

$$y = \ln x$$

Roots

$$\sqrt{2}$$

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

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

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

Fraction

About $\frac{2}{3}$ of glass is full.

About $\frac{2}{3}$ of glass is full.

About $\frac{2}{3}$ of glass is full.

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

$$\frac{1}{1+\frac{1}{4}}$$

Brackets

States that $a(b+c) = ab+ac$, for all $a,b,c \in \mathbb{R}$

Square a , $[a]$

Curly Bracket A , $\{working\}$

Doller Sign \$

$$2\left(\frac{2}{1^{2-1}}\right)$$

$$2\left[\frac{2}{1^{2-1}}\right]$$

$$2\left\{\frac{2}{1^{2-1}}\right\}$$

$$2\left\langle\frac{2}{1^{2-1}}\right\rangle$$

$$2\left|\frac{2}{1^{2-1}}\right|$$

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

$$\left(\frac{1}{1+\left(\frac{1}{1+x}\right)}\right)$$

Tables

| | | | | | |
|--------|----|----|----|----|----|
| x | 1 | 2 | 3 | 4 | 5 |
| $f(x)$ | 10 | 11 | 12 | 14 | 15 |

| | | | | | |
|--------|---------------|----|----|----|----|
| x | 1 | 2 | 3 | 4 | 5 |
| $f(x)$ | $\frac{1}{2}$ | 11 | 12 | 14 | 15 |

Table 1: these value $f(x)$

Arrays

$$5x^2-9=x+3 \tag{1}$$

$$5x^2-9=x+3 \tag{2}$$

$$5x^2 - 9 = x + 3$$

$$5x^2 - 9 = x + 3$$

$$5x^2 - 9 = x + 3 \tag{3}$$

$$5x^2 - 9 = x + 3 \tag{4}$$

Lists

1. nishu
2. deepak
3. neelam
 - (a) gla
 - (b) bank
4. last

- A. nishu
- B. deepak
- C. neelam

nishu

deepak

neelam

- nishu
- deepak
- neelam
 - gla
 - bank
- last

Text and Document Formatting

this is a *test*
this is a **test**
this is a TEST
this is a **test**
please visit google

i am nishant yadav
i am nishant yadav
i am nishant yadav
i am nishant yadav
i am nishant yadav
i am nishant yadav
i am nishant yadav
i am nishant yadav
i am nishant yadav
i am nishant yadav
i am nishant yadav

this is a center

this is a left

this is a right

1 Lists

1.1 learning

1.2 thinking

2 formatting

2.1 text

2.2 words