Contents

LaTeX 101

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July 18, 2018

Hello World !!
This is my first Latex document.

1 Math Function

My math functions as $(y = \Phi * x)$ and $e = mc^2$

My math functions as

$$(y = \Phi * x)$$

and

$$e = mc^2$$

superscript :

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

/*inline math function*/
subscripts :

$$\Sigma_{i=m,j=n}^{i=1,j=14} * x_{i,j} = \int 4(x^{i,j})$$

greek letters :

$$\alpha, \beta$$

$$y = \sqrt[5]{\sin x * \log_4 x}$$

$$h(v) = \frac{1}{\sqrt{1 + \sqrt{x}}}$$

$$y = \frac{4}{3}$$

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

2 Fractions

$$(2 + x) * \left\{ \frac{x}{u} \right\} = \$12.478$$

dollars

$$\left| \frac{x}{|x| + 1} \right|$$

$$\left. \frac{dy}{dx} \right|_x = 0$$

3 Tabulation

x	1	2	3	4	5	6
$f(x)$	10	11	12	13	14	15

4 Equation Array

$$4x^2 + 5 = 5 \tag{1}$$
$$x^2 = (-2) \tag{2}$$
$$x = 2i \tag{3}$$
$$\tag{4}$$

$$\begin{aligned} 4x^2 + 5 &= 5 && (5) \\ x^2 &= (-2) && (6) \\ x &= 2i && (7) \end{aligned}$$

$$\begin{aligned} 4x^2 + 5 &= 5 \\ x^2 &= (-2) \\ x &= 2i \end{aligned}$$

5 Lists

1. pencil
2. pod
   - space
   - ground
     - pop
     - jor
     - gor
3. paper

hey : $(a + b) = (b + a)$

commutative : $(a + (b + c)) = ((a + b) + c)$

6 Text Format

This will produce *italicized* text.
This will produce **bold-faced** text.
This will produce SMALL CAPS text.
Please visit `typewriter` text.
To add url's use `http://satabiossathya.weebly.com`
To increase the size of the font Larger
To increase the size of the font even Larger
To increase the size of the font even even Larger

/* small – ¿ tiny are the right opposites of the above operations. */

center the statement we use.

To left centrize the statement.

To right indent the statement.

7 Sections

8 First

8.1 Linear Function

8.2 Standard Form

8.3 Vertex Form