Template

Should modify this

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1 LaTex Syntax

code

```
def f(x):
return x+1
```

Table

this	is	Header
a	b	c

Equation

Inline

Qudratic funtion is given as $f(x) = axˆ2 + bx +c $

paragraph

$$f(x) = ax^2 + bx + c$$

or pagebreak

Multiline

1. Align

$$\begin{aligned} f(x) &= ax^2 + bx + c \\ &= ax^2 + bx + c \end{aligned}$$

2. Gather

$$f(x) = ax^2 + bx + c \tag{1.1}$$
$$g(x) = ax^2 + bx + c \tag{1.2}$$

superscript & subscript

1.Super Script

$$e^x,\ e^{x^2}$$

2.SubScript

$$a_n = 2a_{n-1} + 1$$

3.Mixed

$$\delta_\beta^\alpha$$

2) Tensor

$$_nC_r$$

Fraction

1) Fraction

$$\frac{1}{2}$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

2) Differentiation

$$\frac{df(x)}{dx}$$

$$\frac{\partial f(X)}{\partial x}$$

$$\frac{\partial f(x)}{\partial x}$$

Matrix

$$A = \begin{pmatrix} a & b \\ c & d \end{pmatrix}$$

integration

$$\int_0^\infty f(x)dx$$

summation

$$\sum_{n=1}^{\infty} a_n$$

Limitation

$$\lim_{n\to\infty} a_n$$

paremthesis

1) small

$$(1+\frac{1}{2})$$

$$\left(1+\frac{1}{2}\right)$$

2)middle

$$\{1+2\}$$

$$\left\{1+\frac{1}{2}\right\}$$

Rimann sum

$$\int_a^b f(x)dx = \lim_{n\to\infty} \sum_{k=1}^{n} f\left(a+\frac{b-a}{n}k\right)\frac{b-a}{n}$$

Own template

parenthesis (Bracket)

1)Small

$$\left(1+\frac{1}{2}\right)$$

2) middle

$$\left\{1+\frac{1}{2}\right\}$$

3) Big

$$\left[1+\frac{1}{2}\right]$$

Ligatures

1. Mathcal

$$L$$

$$\mathcal{L}$$

2. Mathbb

$$R$$

$$\mathbb{R}\,\mathbb{N}\,\mathbb{Z}\,\mathbb{Q}\,\mathbb{C}$$

Tcolor box

HW 1 LaTeX

Hi, Hello

Practice

3. 두집합 $A = (x, y) \,|\, (x-1)^2 + y^2 \leq 4,\ B = (x, y) \,|\, |(x-1) + |y| \leq a$에 대하여 $A \subset B$이기 위한 양수 a의최소값은?