

# Mathematics in Latex - Part 1

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## 1 Inline math

This is an inline math:  $f(x) = 2x + 5$

This is how to write multiplication using dot(.):  $g(x) = 2 \cdot x$

This is how to write not equal:  $5 + 3 \neq 10$

This is how to write square root:  $\sqrt{2} = 1.414213562 \dots$

This is how to write cubic root:  $\sqrt[3]{2} = 1.25992104 \dots$

This is how to write a fraction:  $\frac{5}{3}$

## 2 Using Greek Alphabet

This is how to write small Pi  $\pi$ .

This is how to write capital Pi  $\Pi$ .

## 3 Display math

Some text.

$$f(x) = 2x + C$$

Some more text.

## 4 Sub and super scripts

This is how to write sub scripts:  $2_2$

This is how to write super scripts:  $2^2$

## 5 Trigonometric functions

This is how to write sine:  $\sin(30)$

This is how to write cosine:  $\cos(30)$