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1 Section

Hello World!

1.1 Math Functions in Latex

There are two major modes of typesetting math in L^AT_EX one is embedding the math directly into your text by encapsulating your formula in dollar \$ signs and the other is using a predefined math environment.

$$f(x) = x^2$$

1.1.1 Subsubsection

This formula $f(x) = x^2$ is an example.

$$1 + 2 = 3$$

$$1 = 3 - 2$$

$$1 + 2 = 3$$

$$1 = 3 - 2$$

Fractions and More L^AT_EX is capable of displaying any mathematical notation. It's possible to typeset integrals, fractions and more. Every command has a specific syntax to use.

$$\begin{aligned} f(x) &= x^2 \\ g(x) &= \frac{1}{x} \\ F(x) &= \int_b^a \frac{1}{3} x^3 \end{aligned}$$

It is also possible to combine various commands to create more sophisticated expressions such as:

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

1.2 Matrices

$$\begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$$

$$\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$$

2 Figures and Images in L^AT_EX

- Captioned images / figures in L^AT_EX
- Image positioning / setting the float
- Multiple images / subfigures in L^AT_EX

2.1 Captioned images / figures in L^AT_EX



Figure 1: A boat.

Figure 1: A boat.

2.2 Multiple Images



Figure 1: The same cup of coffee. Two times.

Figure 1: The same cup of coffee. Two times.

(a) Coffee. (b) More coffee.

Figure 2: The same cup of coffee. Two times.