

# Latex Example Live

Sebastiano Tronto

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## 1 Introduction

Hello, world!

This is a comment

This looks like computer code

## 2 Text

This sentence is in boldface

*italicized* maybe in a sentence **something**

one inside the other

also *italicized*???

This is an important sentence, maybe a quote or something, and this *word* is very important. Let's make this sentence longer than one line.

# Large words

## 3 Math mode

This is an inline formula  $\sum_i \frac{i}{22}$ , it appears within the text

This is a displaystyle formula

$$\sum_{\alpha=0}^{2^{10}} \frac{2}{\alpha} 22$$

it appears on its own line

How sqrt works:  $\sqrt[4]{25}$

$$\begin{aligned} e^x &= \left( \sum_{i=0}^{\infty} \frac{x^i}{i!} \right) = \\ &= \left( 1 + x + \frac{x^2}{2} \right) + \frac{x^3}{6} + \dots \end{aligned} \tag{1}$$

$$\left\{ x \in \mathbb{R} \quad \text{such that} \quad \frac{\sin(x)}{x^2} > 0 \right\} \mathbb{R}$$

$$\sum_i$$

The first equation we wrote is (1)

## 4 Environments

### 4.1 Lists

- One item
- Another  $2 + 2 = 4$

- a third one

$$\sum_{i=0}^n$$

- A sublist:

+ First subitem

+ and so on

- Again in the main list

I One

II Two

III Actually three

IV Three (or not)

## Tables

Let's write a table:

This is a table	second column	third column
Things	a	$2 + 2 = 4$
more things	b	c

$$\begin{pmatrix} \int_0^1 e^x & \frac{2}{25} \\ 0 & 0 \\ 1111 & 234\alpha \end{pmatrix}$$

$$\begin{pmatrix} \int_0^1 e^x & \frac{2}{25} \\ 0 & 0 \\ 1111 & 234\alpha \end{pmatrix}$$

$$\begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix} \xrightarrow{L2 \rightarrow L2+L3} \begin{pmatrix} 1 & 2 \\ 4 & 6 \end{pmatrix}$$

## 5 Last section

In section 4.1 we saw how to write lists

**My Theorem 5.1** (Gauss). *The equation  $2 + x = 4$  is true for  $x = 2$ .*

**Proposition 5.2.** A less important fact

**Definition 1.** a definition

**My Theorem 5.3.** *Another important fact.*

*Achtung.* It is a common mistake to think that  $2 + 2 = 5$

$$\binom{4}{5}$$

$$2 \nmid 10$$