



Primeira edição

Título do livro  
Subtítulo do livro

Fernando Pujaico Rivera

Lavras/MG

2020

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*Amicum lege feliciter, vivas, gaudeas, floreas in Deo.*

*Fernando*



# Agradecimentos

*Dou muitas graças a Deus*



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Fernando Pujaico Rivera





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# Prólogo

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---

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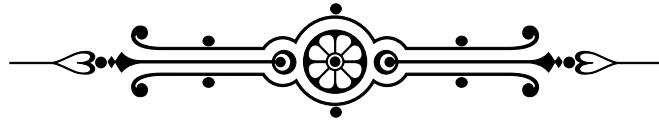
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# Parte I



**Sample of text**





# CAPÍTULO 1

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## An example of chapter title with large legth

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### 1.1 An example of section title with large length

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Referencia a la Información 1.1.1 (siguiente)

*i* **Título A:** Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

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#### Text

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Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Referencia a las Frases 1.1.1 y 1.1.2

---

#### Frase 1.1.1: Frase title A

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

Autor

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#### **Frase 1.1.2: Frase title B**

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

Autor

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Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

## **1.2 Citation**

This statement requires citation [Smi12]; this one is more specific [Smi13, página 122].

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Referencia a la Información 1.2.1 (siguiente)

*i*

**Título B:** Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.<sup>a</sup>

<sup>a</sup>Simple footnote example.

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<sup>a</sup>Simple footnote example.

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habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Referencia a la Información 1.2.1 (siguiente)



**Elaboração 1.2.1: Título C**

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### 1.3 Lists

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<sup>1</sup>Footnote example...

### 1.3.1 Numbered List

1. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris..
2. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris..
3. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris..

### 1.3.2 Bullet Points

- Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris..
- Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris..
- Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris..

### 1.3.3 Descriptions and Definitions

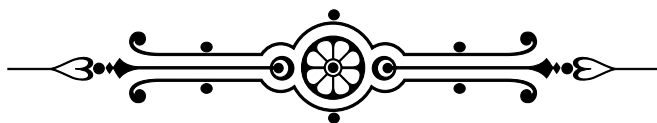
**Name** Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris..

**Word** Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris..

**Comment** Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris..



# Parte II



# Enviroments





# CAPÍTULO 2

---

## In-text Elements

---

### 2.1 Boxes

This is an example of use theorem. We can reference the Theorem 2.1.1, 2.1.2, 2.2.1, 2.2.2 and 2.3.1.

#### 2.1.1 Theorems

This is an example of theorem.

```
\begin{theorem}[Name of the theorem]
\label{theo:A}
\lipsum[1][1-3]
\begin{equation}
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{theorem}
```

The last code generates the next theorem.

**Teorema 2.1.1 - Name of the theorem:** Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.1)$$

This is an example of theorem proof.

```
\begin{proof}[Relative to Teorema \ref{theo:A}]
\lipsum[1][1-3]
\begin{equation}
```

```
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{proofraw}
```

The last code gnerates the next proof.

**Proof 2.1.1** (Relative to Teorema 2.1.1). *Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.*

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.2)$$

## 2.1.2 Exercises

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

```
\begin{exercise}[Exercise name]
\lipsum[1][1-3]
\begin{equation}
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{exercise}
```

**Exercício 2.1.1 — Exercise name:** Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.3)$$

```
\begin{exercise}[Exercise name A0]
\label{ex:A0}
\lipsum[1][1-3]
\begin{equation}
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{exercise}
```

**Exercício 2.1.2 — Exercise name A0:** Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.4)$$

```
\begin{theorem}
\label{theo:B}
\lipsum[1][1-3]
\end{theorem}
```

**Teorema 2.1.2:** Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

## 2.2 Examples

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. See Example 2.1.2

```
\begin{example}[Example name]
\label{ex:A0:b}
\lipsum[1][1-3]
\begin{equation}
x^2 + e^{-\frac{x^2}{2}} = 1
\end{equation}
\end{example}
```

**Exemplo 2.2.1 — Example name:** Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.5)$$

```
\begin{theorem}
\label{theo:C}
```

```
\lipsum[1] [1-3]
\end{theorem}
```

**Teorema 2.2.1:** Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

```
\begin{theorem}
\label{theo:D}
\lipsum[1] [1-3]
\end{theorem}
```

**Teorema 2.2.2:** Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

## 2.3 Definitions

Definition 2.3.1,

```
\begin{definition} [Definition name]
\label{def:A0}
\lipsum[1] [1-3]
\begin{equation}
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{definition}
```

**Definition 2.3.1 — Definition name:** Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.6)$$

```
\begin{theorem} [Theorem name]
\label{theo:E}
\lipsum[1] [1-3]
```

```
\begin{equation}
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{theorem}
```

**Teorema 2.3.1 - Theorem name:** Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.7)$$

```
\begin{exercise}[Exercise name A]
\label{exer:A}
\lipsum[1][1-3]
\begin{equation}
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{exercise}
```

**Exercício 2.3.1 — Exercise name A:** Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.8)$$

```
\begin{exercise}[Exercise name]
\lipsum[1][1-3]
\begin{equation}
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{exercise}
```

**Exercício 2.3.2 — Exercise name:** Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.9)$$

```
\begin{exercise}[Exercise name B]
\label{exer:B}
\lipsum[1][1-3]
\begin{equation}
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{exercise}
```

**Exercício 2.3.3 — Exercise name B:** Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.10)$$

Exer 2.1.2, 2.3.1 e 2.3.3.

## 2.4 Notations

Notations 2.4.1, 2.4.2, 2.4.3 e 2.4.4.

```
\begin{notation}
\label{not:A}
\lipsum[1][1-3]
\begin{equation}
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{notation}
```

**Notação 2.4.1:** Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.11)$$

```
\begin{notation}[Notation name title very large]
\label{not:B}
\lipsum[1][1-3]
\begin{equation}
x^2+e^{-\frac{x^2}{2}}=1
```

```
\end{equation}
\end{notation}
```

**Notação 2.4.2 — Notation name title very large:** Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.12)$$

```
\begin{notation}
\label{not:C}
\lipsum[1][1-3]
\begin{equation}
x^2 + e^{-\frac{x^2}{2}} = 1
\end{equation}
\end{notation}
```

**Notação 2.4.3:** Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.13)$$

```
\begin{notation}[Notation title]
\label{not:D}
\lipsum[1][1-3]
\end{notation}
```

**Notação 2.4.4 — Notation title:** Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

## 2.5 Equationbox

```
\begin{equationbox}
\begin{equation}
```

```
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{equationbox}
```

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.14)$$

## 2.6 Phrasebox

```
\begin{phrasebox}{Frase title}{Fernando P. R.}
\lipsum[1][1-3]
\end{phrasebox}
```

### Frase 2.6.1: Frase title

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

Fernando P. R.

## 2.7 Attentionbox

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

```
\begin{attentionbox}
\lipsum[1][1-3]
\end{attentionbox}
```



Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

## 2.8 Informationbox

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.




```
\begin{informationbox}[Título A]
\lipsum[1][1-3]
\end{informationbox}
```

*i***Título A:** Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

## 2.9 Elaborationbox


Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

```
\begin{elaborationbox}[Title of elaborationbox]
\lipsum[1][1-3]
\end{elaborationbox}
```

**Elaboração 2.9.1: Title of elaborationbox**  
  
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

```
\begin{elaborationbox}
\lipsum[1][1-3]
\end{elaborationbox}
```

  
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

## 2.10 Bulletjournalitem

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

```
\begin{bulletjournalitem}
\tcbitem \lipsum[1] [1-3]
\tcbitem \lipsum[1] [2-4]
\tcbitem \lipsum[1] [3-5]
\end{bulletjournalitem}
```

- ✘ Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.
- ✘ Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna.
- ✘ Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque.

## 2.11 Bulletjournalpicture

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

```
\begin{bulletjournalpicture}[black]
\tcbitem \lipsum[1] [1-3]
\tcbitem \lipsum[1] [2-4]
\tcbitem \lipsum[1] [3-5]
\end{bulletjournalpicture}
```

- ★ 1 Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

★<sup>2</sup> Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna.

★<sup>3</sup> Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque.

## 2.12 Bulletjournalarrow

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

```
\begin{bulletjournalarrow}[black]
\tcbitem First line of text.
\tcbitem Second line of text.
\end{bulletjournalarrow}
```

**1** First line of text.

**2** Second line of text.

## 2.13 Bulletjournalround

```
\begin{bulletjournalround}[colorNotation]
\tcbitem First line of text.
\tcbitem Second line of text.
\end{bulletjournalround}
```

**1** First line of text.

**2** Second line of text.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

```
\begin{notation}[Notation name title very large]
Text before bulletjournalround enviroment.
\begin{bulletjournalround}[colorNotation]
\tcbitem First line of text.
\tcbitem Second line of text.
\end{bulletjournalround}
```

Text out of bulletjournalround enviroment.  
`\end{notation}`

**Notação 2.13.1 — Notation name title very large:**Text before bulletjournalround enviroment.

**1** First line of text.

**2** Second line of text.

Text out of bulletjournalround enviroment.

## 2.14 Notebox

`\begin{notebox}`  
`\lipsum[1] [1-3]`  
`\end{notebox}`



Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

# CAPÍTULO 3

---

## Presenting Information

---

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

### 3.1 Table

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac,

adipiscing vitae, felis. Curabitur dictum gravida mauris.



```
\begin{table}[h]
\centering
\begin{tabular}{l l l}
\toprule
\textbf{Treat.} & & 
\textbf{Resp. 1} & & 
\textbf{Resp. 2}\\
\midrule
Treatment 1 & 0.0003262 & 0.562 \\
Treatment 2 & 0.0015681 & 0.910 \\
Treatment 3 & 0.0009271 & 0.296 \\
\bottomrule
\end{tabular}
\caption{Table caption}
\end{table}
```

Treat.	Resp. 1	Resp. 2
Treatment 1	0.0003262	0.562
Treatment 2	0.0015681	0.910
Treatment 3	0.0009271	0.296

Tabela 3.1: Table caption

### 3.2 Figure

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac,

nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.



```
\begin{figure}[h]
\centering
\includegraphics[width=0.3\textwidth]
{placeholder.jpg}
\caption{Figure caption}
\end{figure}
```

Placeholder  
Image

Figura 3.1: Figure caption

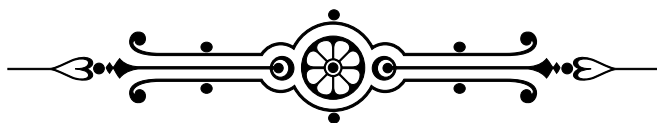


Search image files in directory: ./pictures





# Parte III



# Macros



# CAPÍTULO 4

---

## Macros

---

### 4.1 File math-macros.tex



```
\begin {equation}  
\FuncOf {f}{x}  
\end {equation}
```

$$f(x) \tag{4.1}$$



```
\begin {equation}  
\MinOf {x}{f(x)}  
\end {equation}
```

$$\min_x f(x) \tag{4.2}$$



```
\begin {equation}  
\ArgMin {x}{f(x)}  
\end {equation}
```

$$\arg_x \min f(x) \tag{4.3}$$



```
\begin {equation}
\ArgMinDef {x}{f}
\end {equation}
```

$$\arg_x \min f(x) = \left\{ x | f(x) = \min_{x'} f(x') \right\} \quad (4.4)$$



```
\begin {equation}
\EigenSet {A}{v}{\lambda }
\end {equation}
```

$$\{v, \lambda | Av = \lambda v\} \quad (4.5)$$



```
\begin {equation}
\InnerProd {x}{y}
\end {equation}
```

$$\langle x, y \rangle \quad (4.6)$$



```
\begin {equation}
\Norm {x}
\end {equation}
```

$$\|x\| \quad (4.7)$$



```
\begin {equation}
\Cardinality {x}
\end {equation}
```

$$\text{card}(x) \quad (4.8)$$



```
\begin {equation}  
\DiagFunc {x}  
\end {equation}
```

$$\text{diag}(x) \quad (4.9)$$



```
\begin {equation}  
\Vector {x}  
\end {equation}
```

$$\mathbf{x} \quad (4.10)$$



```
\begin {equation}  
\Matrix {x}  
\end {equation}
```

$$\mathbf{X} \quad (4.11)$$



```
\begin {equation}  
\DtVector {x}  
\end {equation}
```

$$\dot{\mathbf{x}} \quad (4.12)$$



```
\begin {equation}  
\DDtVector {x}  
\end {equation}
```

$$\ddot{x} \quad (4.13)$$



```
\begin {equation}
\DtMatrix {x}
\end {equation}
```

$$\dot{X} \quad (4.14)$$



```
\begin {equation}
\DDtMatrix {x}
\end {equation}
```

$$\ddot{X} \quad (4.15)$$



```
\begin {equation}
\DPartial {y}{x}
\end {equation}
```

$$\frac{\partial y}{\partial x} \quad (4.16)$$



```
\begin {equation}
\DDPartial {y}{x}
\end {equation}
```

$$\frac{\partial^2 y}{\partial x^2} \quad (4.17)$$



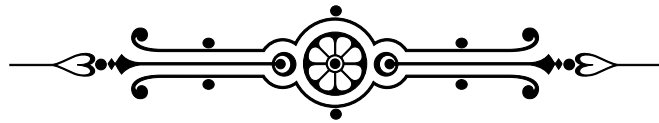
```
\begin {equation}  
\DDPartialXY {z}{x}{y}  
\end {equation}
```

$$\frac{\partial^2 z}{\partial x \partial y} \quad (4.18)$$





# Parte IV



# Referencias



---

# Bibliografia

---

- [Smi12] John Smith. *Book title*. 1ª edição. Volume 3. 2. City: Publisher, jan. de 2012, páginas 123–200 (ver página 18).
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