

# Geometría analítica

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# CAPÍTULO I

## Prerequisitos

### 1.1. Ingresar imagen

Generar pdf y svg en inskape(ajustar Shift+Ctrl+R) o relativos luego se debe guardar en el mismo directorio general luego se usa el entorno `ff fff`

See Theorem I.1

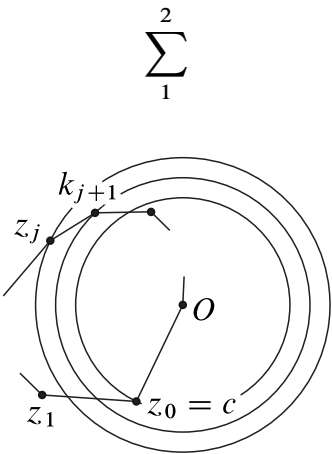


Figura I.1: ww

**Teorema I.1.** *Here is my theorem.*  
**Definición I.1** (ww).

See Figure I.3 I.1



Figura I.2: ww

```
plot(cars) # a scatterplot
```

**Teorema I.2** (Pythagorean theorem). *For a right triangle, if  $c$  denotes the length of the hypotenuse and  $a$  and  $b$  denote the lengths of the other two sides, we have*

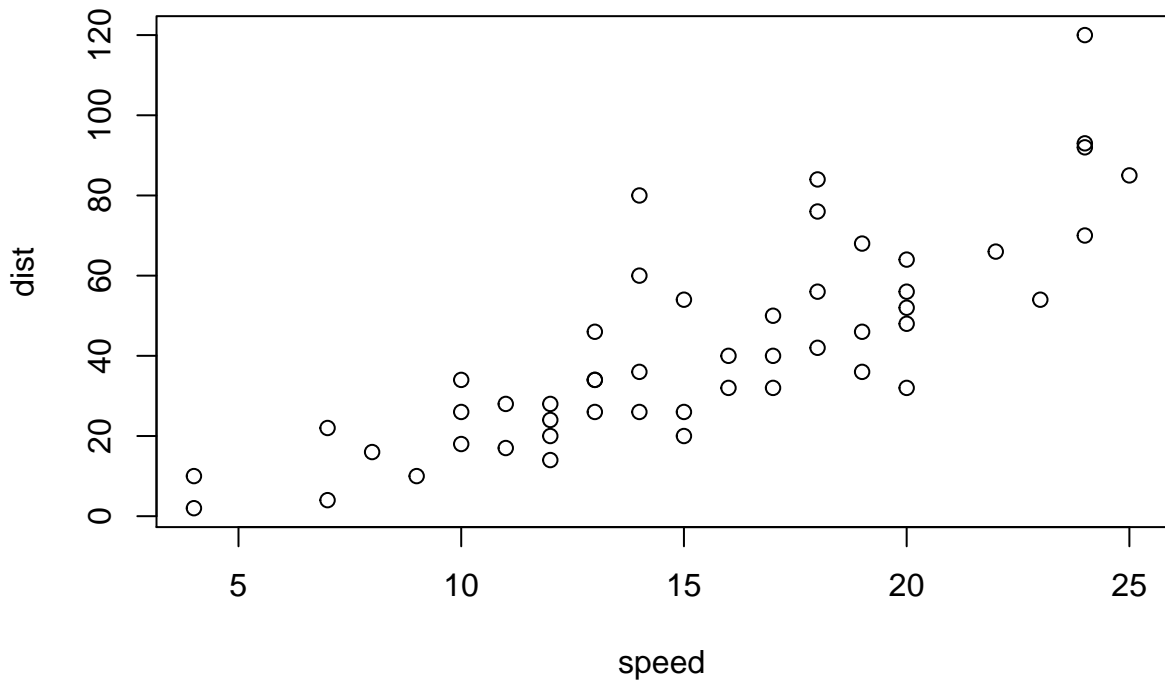


Figura I.3: A plot caption

Cuadro I.1: A caption

	mpg	cyl	disp	hp	drat
Mazda RX4	21.0	6	160	110	3.90
Mazda RX4 Wag	21.0	6	160	110	3.90
Datsun 710	22.8	4	108	93	3.85
Hornet 4 Drive	21.4	6	258	110	3.08
Hornet Sportabout	18.7	8	360	175	3.15

$$a^2 + b^2 = c^2$$

See Table I.1

```
knitr::kable(mtcars[1:5, 1:5], caption = "A caption", booktabs=TRUE)
```

$$f(k) = \binom{n}{k} p^k (1-p)^{n-k} \quad (\text{I.1})$$

Este es un *ejemplo* book written in **Markdown**. La ecuacion (I.1). You can use anything that Pandoc's Markdown supports, e.g., a math equation  $a^2 + b^2 = c^2$ .

The **bookdown** package can be installed from CRAN or Github:

```
install.packages("bookdown")
# or the development version
```

```
# devtools::install_github("rstudio/bookdown")
```

Remember each Rmd file contains one and only one chapter, and a chapter is defined by the first-level heading #.

To compile this example to PDF, you need XeLaTeX. You are recommended to install TinyTeX (which includes XeLaTeX): <https://yihui.org/tinytex/>.

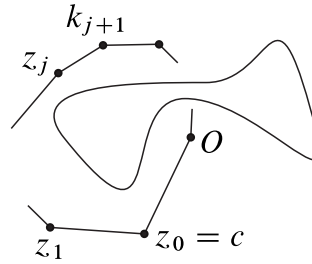


Figura I.4: ww

## CAPÍTULO II

### Introduction

**Teorema II.1** (russ). *Dada el espacio  $R$  y  $r \in R$  se tiene que  $\mathcal{R}(r) = \lim_{t \rightarrow \infty} g(y)_r$*

*Demostración.* En efecto haciendo el intercambio de variables se tiene que  $\sum_{i=1}^{\infty} r_i$

$$\vec{r} = \left\| \frac{\int_1^2 \vec{r}}{|\vec{r}_1|^2} \right\| \left\| \int_1^2 e \right\|$$

por lo tanto se cumple. □

You can label chapter and section titles using after them, e.g., we can reference Chapter II. If you do not manually label them, there will be automatic labels anyway, e.g., Chapter IV.

Figures and tables with captions will be placed in and environments, respectively.

```
par(mar = c(4, 4, .1, .1))
plot(pressure, type = 'b', pch = 19)
```

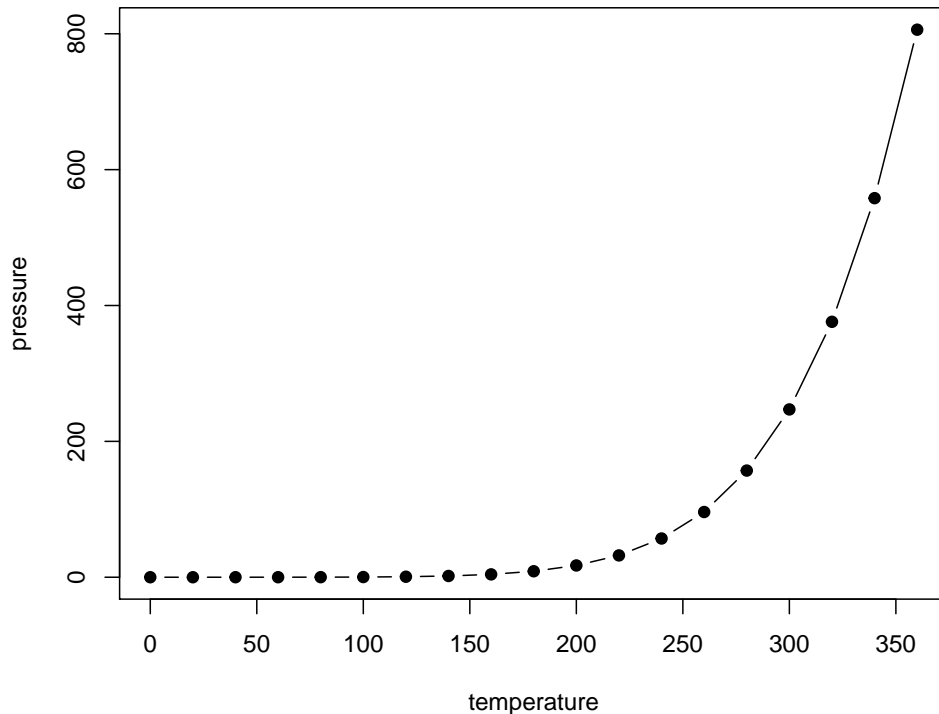


Figura II.1: Here is a nice figure!

Reference a figure by its code chunk label with the prefix, e.g., see Figure II.1. Similarly, you can reference tables generated from, e.g., see Table II.1.

Cuadro II.1: Here is a nice table!

Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
5.1	3.5	1.4	0.2	setosa
4.9	3.0	1.4	0.2	setosa
4.7	3.2	1.3	0.2	setosa
4.6	3.1	1.5	0.2	setosa
5.0	3.6	1.4	0.2	setosa
5.4	3.9	1.7	0.4	setosa
4.6	3.4	1.4	0.3	setosa
5.0	3.4	1.5	0.2	setosa
4.4	2.9	1.4	0.2	setosa
4.9	3.1	1.5	0.1	setosa
5.4	3.7	1.5	0.2	setosa
4.8	3.4	1.6	0.2	setosa
4.8	3.0	1.4	0.1	setosa
4.3	3.0	1.1	0.1	setosa
5.8	4.0	1.2	0.2	setosa
5.7	4.4	1.5	0.4	setosa
5.4	3.9	1.3	0.4	setosa
5.1	3.5	1.4	0.3	setosa
5.7	3.8	1.7	0.3	setosa
5.1	3.8	1.5	0.3	setosa

```
knitr::kable(
  head(iris, 20), caption = 'Here is a nice table!',
  booktabs = TRUE
)
```

You can write citations, too. For example, we are using the **bookdown** package (Xie, 2020) in this sample book, which was built on top of R Markdown and **knitr** (Xie, 2015).

## **CAPÍTULO III**

### **Literature**

Here is a review of existing methods.



## **CAPÍTULO IV**

### **Methods**

We describe our methods in this chapter.

## **CAPÍTULO V**

### **Applications**

Some *significant* applications are demonstrated in this chapter.

#### **5.1. Example one**

#### **5.2. Example two**

## **CAPÍTULO VI**

### **Final Words**

We have finished a nice book.

## **Bibliografía**

Xie, Y. (2015). *Dynamic Documents with R and knitr*. Chapman and Hall/CRC, Boca Raton, Florida, 2nd edition. ISBN 978-1498716963.

Xie, Y. (2020). *bookdown: Authoring Books and Technical Documents with R Markdown*. R package version 0.17.