

Assignment 1

(note: **no cover page** necessary)

If you do not adhere to the rules presented in this file, the grader will first give you a warning. If the situation repeats, the grader can subtract up to 1 point (out of 10).

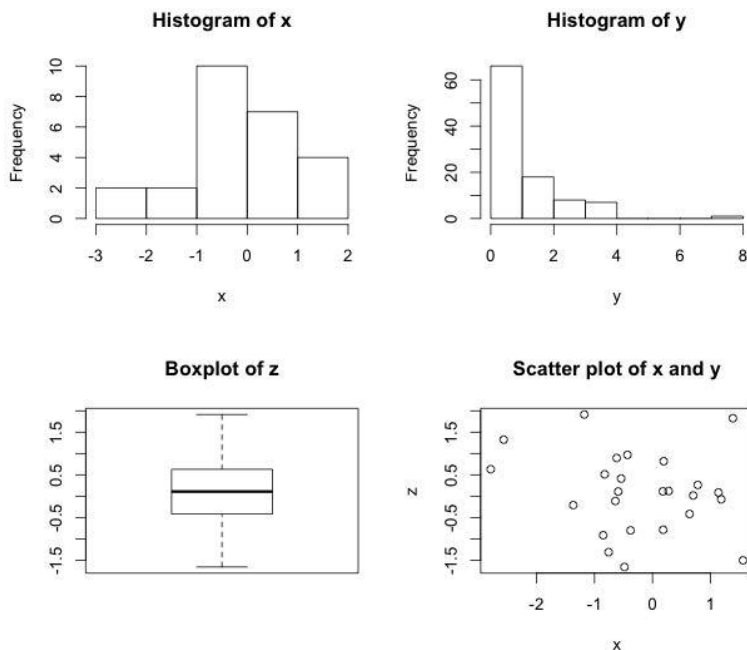
Exercise 1.1

Write in **English**. **Do not copy the question**, just write your answer. Write a compact answer, in your own words. It should convince the grader that you understand the theory and can interpret the results. **No lengthy answers, but of course, do not leave out any essentials**, since it should convince us that you understand the theory. Your reports should not exceed four pages (excl. appendix).

Always use proper rounding. In most cases **2-3 digits** after the decimal point suffice. For instance:

- $0.015435234 \rightarrow 0.015$
- $0.4232 \rightarrow 0.42$
- $7e-4 = 0.0007 \rightarrow 0.001$

Figures can be small (as long as they are legible). You can put **two figures (or more) next to each other**. Use `par(mfrow=c(n,m))` to create n by m plots in one picture in R.



Make sure your figures are neat:

- axis labels
- a title
- it shows all the data

(Perhaps **new page** for appendix)

Appendix

Exercise 1.4

```
x=rnorm(25)
hist(x)
y=rexp(100)
hist(y)
```

Put only relevant R-code in the appendix (i.e. delete all unnecessary lines, which did not work).

Include your R-code as plain text as in the example above; in particular, it should **not contain the R output** (this should usually be used only in the main report) and it **must not contain the ">" signs**.

Do not place any explanations here.

any explanations here.