

**R exercise 02: basic graphics commands**

- (1) Execute the commands listed below one by one via the R prompt.
- (2) See and understand what happens. In case of functions, carefully read the help pages and browse through them.
- (3) Play around with the commands by changing the parameters, choosing different command options, etc.
- (4) Export the graphics output of some of the commands to a PDF file, using the function `pdf()`.  
Example:

```
pdf("myfile.pdf", width=10.0, height=7.5)
[PLOT COMMANDS]
dev.off
```

- (5) Read the help pages of the commands `dev.list()`, `dev.cur()`, `dev.off()`. Explore them by invoking them before and after the `pdf()` command.
- (6) Read the help pages of the command `savePlot()`, and try it out.

```
library(MASS)
attach(geyser)
plot(waiting, duration)
truehist(waiting)
truehist(waiting, nbins=20)
detach(geyser)
x <- seq(1,10,0.5)
y <- x + 0.2*x^2 + rnorm(x,0,1)
plot(x,y)
lines(x,y) # overplots
?plot
plot(x, y, pch=20, col="red", cex=2)
points(x, y-5, pch=4, col="blue") # overplots
abline(a=0, b=2, lty=2, lwd=2)
?par
```