

First Assignment

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Solution

Tasks 1 and 2

I begin by creating a couple of lists, as instructed. Here is a bulleted list with a sub-list:

- First item.
- An item with a sub-list:
 - Item a.
 - Item b.
- Last item.

I have just finished task 1. Next, I will create a numbered list.

1. Grocery shopping
2. Email mom
3. Get lunch
4. Go on walk

The second task is now complete.

Tasks 3 and 4

For the third task, I have to include some *italicized words*. And, for task 4, I need to add some **words in bold print**. This should convince you that I know how to **bold** and *italicize* text.

Task 5

I've already used different headers. But, in case you still need to be convinced that I know how to create them, I'll include a few more:

Header

Another header

I believe this is enough.

Task 6

I will write some code that adds two numbers. You should be able to see the corresponding output. But my code will be hidden.

```
## [1] "10 + 20 = 30"
```

Task 7

As instructed, next I will create a table. Specifically, I will generate a table that contains important Unix commands.

Name	Category	Description
cd	Filesystem	Change the working directory
kill	Process management	Terminate or signal processes
sed	Text processing	Stream editor

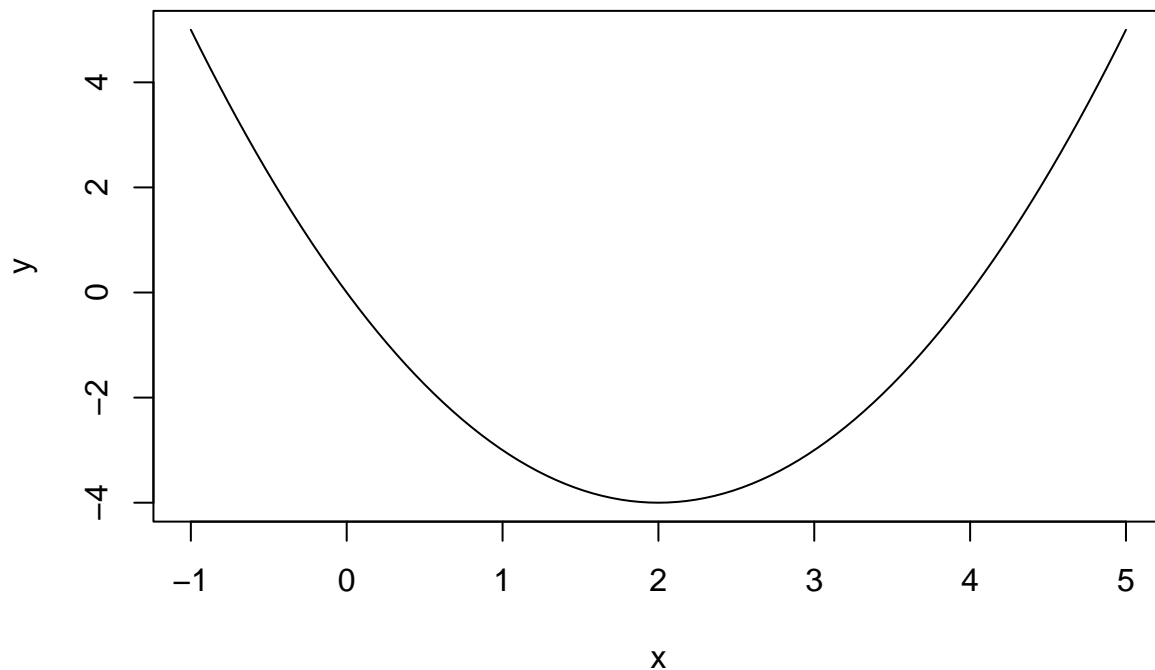
Task 8

For task 8, I will plot the following quadratic function:

$$y = f(x) = x^2 - 4x$$

To generate this plot, I will use the `curve` function.

```
curve(  
  x^2 - 4 * x,  
  from = -1,  
  to = 5,  
  xlab = "x",  
  ylab = "y"  
)
```



Task 9

The next step is to print my session info. The command for doing so is below. The output of this command is a little different from what you would expect. The reason is that I ran this code on my personal computer.

```
sessionInfo()
```

```
## R version 4.2.1 (2022-06-23)
## Platform: x86_64-pc-linux-gnu (64-bit)
## Running under: Arch Linux
##
## Matrix products: default
## BLAS: /usr/lib/libblas.so.3.10.1
## LAPACK: /usr/lib/liblapack.so.3.10.1
##
## locale:
## [1] LC_CTYPE=pt_BR.UTF-8      LC_NUMERIC=C
## [3] LC_TIME=pt_BR.UTF-8      LC_COLLATE=pt_BR.UTF-8
## [5] LC_MONETARY=pt_BR.UTF-8  LC_MESSAGES=pt_BR.UTF-8
## [7] LC_PAPER=pt_BR.UTF-8     LC_NAME=C
## [9] LC_ADDRESS=C             LC_TELEPHONE=C
## [11] LC_MEASUREMENT=pt_BR.UTF-8 LC_IDENTIFICATION=C
##
## attached base packages:
## [1] stats      graphics  grDevices  utils      datasets  methods    base
##
## other attached packages:
## [1] rmarkdown_2.15  nvimcom_0.9-132
##
## loaded via a namespace (and not attached):
## [1] knitr_1.39      magrittr_2.0.3  R.cache_0.16.0  rlang_1.0.4
## [5] fastmap_1.1.0   fansi_1.0.3     highr_0.9        stringr_1.4.0
## [9] styler_1.7.0    tools_4.2.1     xfun_0.32        R.oo_1.25.0
## [13] tinytex_0.41    utf8_1.2.2      cli_3.3.0        htmltools_0.5.3
## [17] yaml_2.3.5      digest_0.6.29   tibble_3.1.8     lifecycle_1.0.1
## [21] purrr_0.3.4     vctrs_0.4.1     R.utils_2.12.0   glue_1.6.2
## [25] evaluate_0.16   stringi_1.7.8   compiler_4.2.1   pillar_1.8.0
## [29] R.methodsS3_1.8.2 pkgconfig_2.0.3
```

Tasks 10 and 11

Recall that the last two tasks are the following:

- Execute .Rmd file.
- Upload knitted PDF.

Obviously, these are problems that I cannot solve **here**. However, if you are reading this document, this is a pretty good indication that I succeeded.