

Decoration

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## Name of First Chapter

This document can be used as a compilation of all work one produces in a course. For instance, it may include self-proofs of given theorems and all homework submissions.

### 1.1 Name of First Section

#### 1.1.1 Theorems

Contents of the first subsection of this document

**Theorem 1.1.** This is the first theorem.

**Proof.** This is my proof of the first theorem.



#### 1.1.2 Exercises

**Exercise 1.1.** This is the first exercise.

**Answer.** This is the first answer to the first exercise.



#### 1.1.3 Homework #1

**Definition H.1.1.** This is the first definition of the first homework.

**Exercise H.1.1.** This is the first exercise of the first homework.

**Proof.** This is the first proof of the first exercise of the first homework. We can easily reference labels from `main.tex`, e.g. [theorem 1.1](#).



**Exercise H.1.2.** This is the second exercise of the first homework.

**Proof.** This is the first proof of the second exercise of the first homework. We reference [exercise H.1.1](#) here.



**Exercise H.1.3.** This is the third exercise of the first homework.

**Answer.** The answer to [exercise H.1.3](#)



We insert [figure H.1.1](#) as an example figure:



Figure H.1.1: A figure whose author [Grass](#) licenses under [CC BY-SA 4.0](#).

## 1.2 Name of Second Section

### 1.2.1 Theorems

**Theorem 1.2.** This is the second theorem.

**Proof.** This is the proof to the second theorem.



**Corollary 1.3.** This is a corollary that is trivial enough for the proof to be left unstated. As such, we use the `type in thmgroup = standalone` option.

### 1.2.2 Exercises


**Exercise 1.2.** Another exercise.

**Text.**

1 Some code as part of the answer to [exercise 1.2](#).

**Answer.** The answer to [exercise 1.2](#).



These are some hyperlinks with `zref-clever`: [exercise 1.1](#), [exercise 1.2](#), [exercise H.1.1](#), [exercise H.1.2](#), [exercise H.1.3](#). We can also reference theorems: [theorem 1.1](#). Furthermore, [external links](#)  are nicely formatted with the `\extref{<URL>}{<link name>}` command.

**Exercise 1.3.** Show that we can nest a listing inside an answer box, in an aesthetic way.

**Answer.** The first part of our answer.

1 The code for our answer

The second part of our answer lies here.



This is the second page.

This is the third page.





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## Name of second chapter

### 2.1 Name of first section

#### 2.1.1 Theorems

#### 2.1.2 Exercises

**Exercise 2.1.** This is the first exercise of the second chapter.

