# Decoration

Author

## Document Name

Other information (e.g. 1st January 2025–28th October 2025)

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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:

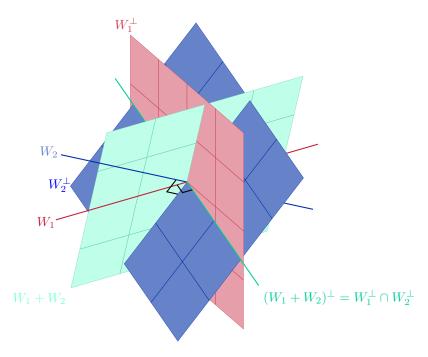


Figure H.1.1: A figure whose author Grass ♂ licenses under CC BY-SA 4.0 ⊄.

#### 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.

Some code as part of the answer to exercise 1.2.

**Answer.** The answer to exercise 1.2.



**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.

The code for our answer

The second part of our answer lies here.



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  $\Box$  are nicely formatted with the \extref{\lambdaURL\rangle}{\lambdalinks \text{\textit{Clink name}}} command.

This is the second page.

This is the third page.

## 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.