Decoration

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Chapter 1

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:

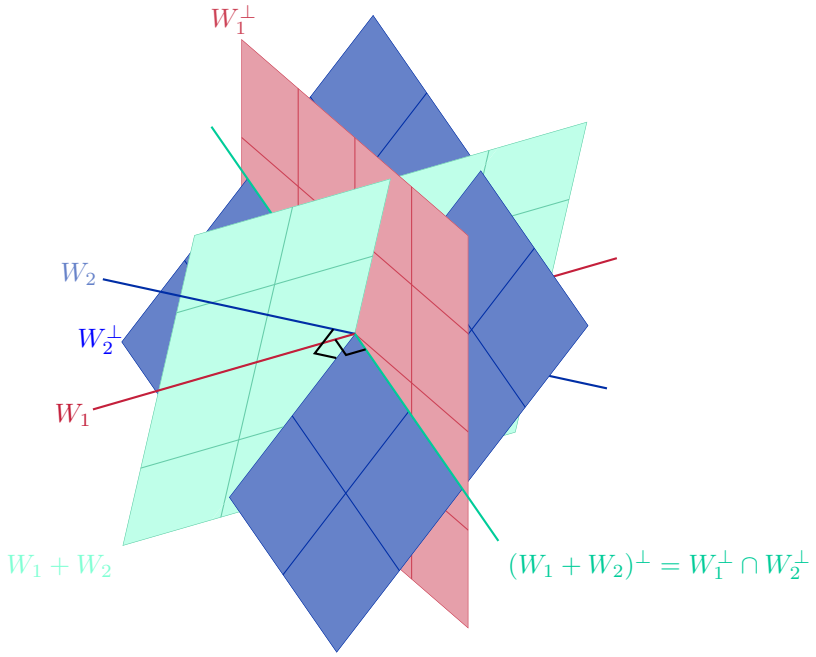

Figure H.1.1: A figure whose author Grass licenses under CC BY-SA 4.0.

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.

This is the second page.

This is the third page.

Chapter 2

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.