

Decoration

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Author

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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.

#### 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.



**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.



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

macro:->\theHchapter .\the \value {problem}

## 1.2 Name of Second Section

### 1.2.1 Theorems

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

### 1.2.2 Exercises

**Exercise 1.2.** test

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](#).

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.

#### 2.1.3 Homework 2