

# THE TITLE OF YOUR DISSERTATION

by  
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A dissertation submitted in partial fulfillment  
of the requirements for the degree of  
Doctor of Philosophy  
(Mathematics)  
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## TABLE OF CONTENTS

<b>LIST OF FIGURES</b> . . . . .	<b>iii</b>
<b>CHAPTER</b>	
<b>I. Introduction</b> . . . . .	<b>1</b>
1.1 Sample Section . . . . .	1
<b>II. Labels and Figures</b> . . . . .	<b>2</b>

## LIST OF FIGURES

### Figure

2.1	Sample Figure . . . . .	2
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## CHAPTER I

### Introduction

Here is a sample chapter file. The chapters of the thesis should be saved to separate files such as *chapter1.tex*. In the file *thesis.tex* the *input* command then includes these chapters into the thesis. Note that none of the chapter files need any headers. This header for each of these files is contained in *thesis.tex*. The file *thesis.tex* also includes the numbers system for the sections, figures, theorems lemmas etc...

#### 1.1 Sample Section

This is what a sample section looks like. Let's conclude this section with a sample theorem statement and proof.

**Theorem I.1.** *The are an infinite number of prime numbers*

*Proof:* On the contrary assume there are a finite number of primes  $P_1, P_2, \dots, P_n$ . Consider  $\mathcal{P} = P_1 P_2 \cdots P_n + 1$ .  $\mathcal{P}$  is not divisible by any of the primes in our finite set. (Contradiction)  $\square$

## CHAPTER II

### Labels and Figures

The following is an example of using the commands *ref* and *label*. With these commands theorems, chapters, sections and figures can be labeled with names in the tex file and then referred to by these names in later tex files. In chapter I we saw section 1.1 or theorem I.1.

Lastly, here is how to include a figure. First generate an encapsulated postscript file in xfig, adobe illustrator or some other program. The specific commands are found in *chap2.tex*.

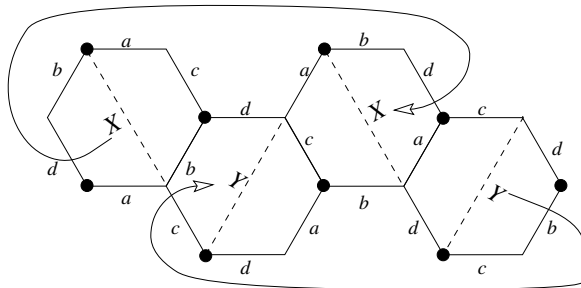


Figure 2.1: Sample Figure

# **ABSTRACT**

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Chair: Plato

Put Abstract Here