Pomona College

Senior Thesis in Mathematics

Absolutely Fascinating Thesis Title

Author:
Firstname Lastname

Advisor:
Dr. Firstname Lastname

Submitted to Pomona College in Partial Fulfillment
of the Degree of Bachelor of Arts

January 20, 2015

Abstract

In this paper we don't really do much. However, there are a lot of real theorems that still need to be proved. That is what you will probably do in your thesis.

Contents

Chapter 1

Boring Title for the First Chapter

Let us do some math:

$$(h) = h_{(1)} \quad h_{(2)}$$
$$(h) = h_{(1)} \quad h_{(2)}$$
$$(h) = h_{(1)} \quad h_{(2)}$$

Here is how you declare a theorem:

Theorem 1.1 *A Big Fat Theorem.* We assert that the following is true:

$$x = 1; y = 1 \,) \quad x + y = 2 \tag{1.1}$$

Let us first consider:

Lemma 1.2 *A Small but Important Lemma.* If $x = a$, and $y = b$, then $x + y = a + f$𝕁j𝕀ı̱ 𝟤𝟦f3

$$x \qquad +$$

Let us first

Theorem 1.3 hmmm

Here is how you call the proof environment:

Proof hmmmm ∎

Chapter 2

Cooler Title for the Second Chapter

As we saw in Chapter 1, everything can be made to be complicated. (See, for example, Figure 2.1.) This is usually not a good idea unless you want to lose your audience.

Most importantly, NEVER DIVIDE BY ZERO unless, of course, you are wearing your protective divide-by-zero suit (See [1] for the terrible consequences which might result. And this is how you cite multiple references: [1, 2, 3]. And if you wanted to, you could refer to specific pages: [4, pages 567{569]).

2.1 Another fascinating section

Some text needs to go here.

2.1.1 And sometimes you will need subsections...
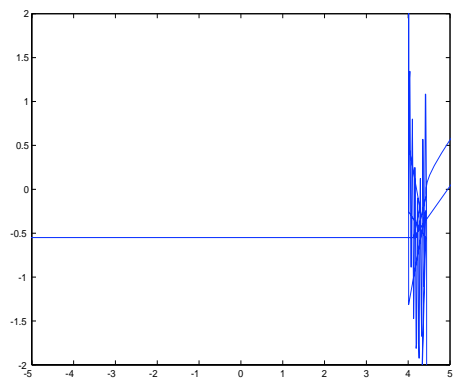
More text goes here.

Figure 2.1: Graphics can really   snaEQ0.9791_1 1 Tup!

Bibliography

[1] Abe, Eiichi; Hopf algebras, Cambridge Tracts in Mathematics, 74, Cambridge University Press, Cambridge-New York, 1980.

[2] Blohmann, Christian; Tang, Xiang; Weinstein, Alan; \Hopfish structures and modules over irrational rotation algebras", e-arXiv preprint, arXiv:math.QA/0604405

[3] Böhm, Gabriella; \An alternative notion of Hopf algebroid", Hopf algebras in noncommutative geometry and physics, Lecture Notes in Pure and Appl. Math. 239, Dekker, New York, 2005, pp.31{53.

[4] Böhm, Gabriella; \Integral theory for Hopf algebroids", Algebr. Represent. Theory 8 (2005), no. 4, pp.563{599.