Senior Thesis in Mathematics

Absolutely Fascinating Thesis Title

Author:
Firstname Lastname

Advisor:
Dr. Firstname Lastname

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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:

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

Here is how you declare a theorem:

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

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

Let us first consider:

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

x +

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.

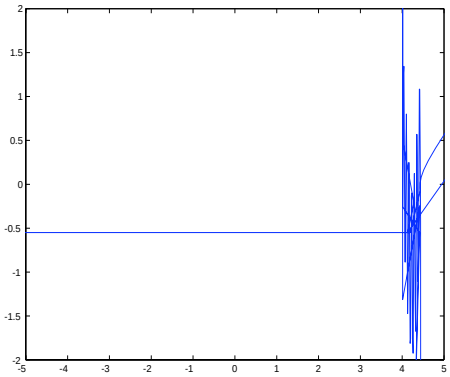

Figure 2.1: Graphics can really snaEQ0.9791_1 1 Tup!

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.