



INTRODUCTION TO ABSTRACT MATHEMATICS OPTIONAL REFERENCES FALL 2013

Here is a list of textbooks that appear to contain (more or less) the essential material we have covered in class so far, and most of what we'll probably get through the rest of the semester. Although I've at least perused each book's table of contents, I must admit I'm not all that familiar with most of them. I personally learned much of this material from (a much older edition of) Solow's book, and I've been using both Maddox and Velleman as occasional references for my lectures. Trinity's library probably has some of these as well as a number of others. Indeed, there is a host of books of this nature, and you should feel free to choose the one that you like the best. If you need help finding one, please let me know so I can make sure it includes the relevant material. And as a final note, yes, I am fully aware that my citation list is not properly formatted!

- Bond, Keane, "An Introduction to Abstract Mathematics"
- Chartrand, Polimeni, Zhang, "Mathematical Proofs: A Transition to Advanced Mathematics"
- Cupillari, "The Nuts and Bolts of Proofs: An Introduction to Mathematical Proofs"
- Devlin, "Sets, Functions, and Logic: An Introduction to Abstract Mathematics"
- Maddox, "A Transition to Abstract Mathematics: Learning Mathematical Thinking and Writing"
- Solow, "How to Read and Do Proofs: An Introduction to Mathematical Thought Processes"
- Velleman, "How to Prove It: A Structured Approach"