Writing Assignments for Math 321

Adapted from work by Jo Ellis-Monaghan

1. Paper 1
   a. Write a 3 page expository paper explaining the formal \((\delta - \varepsilon)\) definition of limit and continuity from calculus, with worked examples. You may illustrate the ideas with graphical snapshots if you wish.
   b. Referee two versions of the above paper.
   c. Revise your original paper with respect to the referee report.

2. Paper 2
   a. Write a 5 page synopsis of the course content to date. You should know the content well enough to determine which is most important to emphasize, since you can’t just cover it all in only 5 pages. You need to explain why various concepts and theorems are important and how they interrelate. Illustrate central concepts with examples (or counterexamples!) beyond what is in the book.
   b. Referee two versions of the above paper.
   c. Revise your original paper with respect to the referee report.
   d. This counts as your midterm exam.
   e. HINT: Don’t delay!

3. Paper 3
   a. Write a 6 page synopsis of the entire course contents, with emphasis on material covered since the Midterm paper. Only include that material from the midterm paper which is necessary to carry your exposition forward. You should know the course content well enough to determine which is most important to emphasize, since you can’t just cover it all in only 6 pages. You need to explain why various concepts and theorems are important and how they interrelate. Illustrate central concepts with examples (or counterexamples) you have constructed yourself.
   b. Referee two version of the above paper.
   c. Revise your original paper with respect to the referee report.
   d. This counts as your final exam.
   e. HINT: Don’t delay!