

# Project 3

**Due: December 12, 2014**

**Recommended length: 4–5 pages.**

**Format:** A .pdf, .dvi, or .ps file emailed to me (A word document will not suffice).

This project is a synthesis of projects 1 and 2. Write a paper that combines all the main results of both. Be sure to

- (1) Make this paper completely independent of the previous two (that is, you should not need to refer to the previous assignments, though you can use the exposition used in these assignments).
- (2) Incorporate all the revisions you've received and make additional changes that reflect your better understanding of how to write math papers.
- (3) Be as efficient as possible, without sacrificing clarity and complete sentences.

**Note that assignments without clearly stated results (in the form of theorems, lemmas, propositions, or corollaries) will not get above a 50%.**

Note that this is a writing assignment, so the main focus should be on clearly communicating the ideas in the proof. I recommend looking at your favorite mathematics texts and trying to emulate their style. I also suggest you have another member of the class read through a draft before handing it in.