

# IDS 101-32 Doing Mathematics

## Paper Assignment 2

150 points

This paper is a continuation and expansion of your first paper. It should include all of your prior work plus what you have done since the first paper. This includes any new definitions, discoveries, figures, explanations, etc. It is your final work product for our course, so it should be carefully edited and professional, as well as mathematically correct.

The final draft is due Friday, **11/18** at class time. Note that this is our last day of class.

1. Purpose: To write a mathematics paper that demonstrates your work on your project.

- Skills:
  - Write an abstract.
  - Write clear definitions and theorem statements.
  - Write convincing arguments that demonstrate that your claims are true.
  - Use software to create any needed diagrams or figures.
- Knowledge:
  - Appropriate citation techniques. For this paper, use Chicago guidelines.
  - Sensitivity to language (including GSP).

2. Tasks:

- Write a paper with an introduction, your results, and remaining open questions that you think are interesting.
- Write an (updated) abstract for your paper.

3. Mechanics:

- The paper should be about 8-10 pages double-spaced in an easily readable 12-point font. This is not a hard limit, but should serve as a guideline.
- Use Chicago style guidelines for this paper.
- Observe conventions of grammar, spelling, and punctuation.

4. Criteria for success

- Did I write a clear abstract that describes the basic ideas and goals of the paper?
- Did I write an introduction that provides the background necessary to understand the rest of the paper?
- Did I write arguments that logically prove my claims? Did I do so in a logical order?
- Did I include appropriate exposition and figures to make my meaning clear?
- Did I pay attention to the mechanics of my writing?