# Final Presentations

**IDS 101-32 Doing Mathematics**

A part of 'Doing Mathematics" is disseminating your results. Your paper is one method; a presentation is another. This assignment, worth 150 points, is to present your work to the class in a PowerPoint (or comparable) format.

## Expectations

1. This presentation should be a summary of your paper. It should contain
   (a) sufficient introductory material that an audience unfamiliar with the topic can nevertheless understand it;
   (b) clear statements of theorems and definitions;
   (c) any appropriate figures or diagrams.
2. Presentations should be in a PowerPoint (or Beamer) format unless we arrange otherwise in advance.
3. Each group will have 30 minutes to present their work, including time for questions.
4. Each group will share their PowerPoint presentation with me.
5. Each group member will submit a (brief!) self-assessment of their performance as a group member and the group as a whole. Did everyone do their share? Were disputes resolved effectively and respectfully? Was there one person the bulk of the work fell on? Etc. This can be submitted on paper or in your PSJ. (It should not be part of the paper.) If you submit it in your PSJ, it will count as an entry for that week.
6. Each project will be graded out of 150 points according to the rubric below.
7. You should expect there to be questions, at least from me. Part of the rubric includes your handling of questions. Keep in mind that "I don't know" is a valid answer to a question and preferable to providing incorrect information. The goal is to be conversant enough with the material to be able to answer a few questions, however.
8. Also, the "ensemble" part of the grade will be based in part on your self-assessments and in part on my observations of your in-class preparation and the presentation itself. While all components of your grade depend on the group working together well, all parts except the ensemble part will be graded individually. The ensemble part (20%) is the only part directly tied to your work together.

A math talk, especially a short one, should discuss the big-picture mathematics involved and not get bogged down in details. What is the topic? What are the main results? Can you briefly give an idea of a proof of those results (again without getting bogged down in details better left to the paper)?

The presentation dates are **Wednesday, 11/16/22 and Friday, 11/18/22**.

# Final Presentation Rubric

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| | | | | |
|---|---|---|---|---|
| Correctness (50 points) | Excellent (90%+) Mathematics and essential facts are correct. | Good (75-90%) Most of the mathematics and facts are correct, but there are some small errors. | Fair (60-75%) Most of the mathematics and facts are correct, but there are some significant errors. | Poor (0-60%) Many significant errors. |
| Clarity (40 points) | Slides are readable: text is well sized and not too dense; formulas are formatted for readability, figures are clear, etc. Explanations are clear. | Most slides are readable and explanations are reasonably clear. There may be some minor sources of confusion. | While most of the presentation is clear, there are several confusing points. | Presentation is confusing and slides are hard to follow. |
| Presentation (40 points) | PowerPoint is free of errors and well organized. Presentation is polished, including timing. Presenters explain the material (not just reading slides to us) and handle questions well. | Slides are mostly free of typos and reasonably organized, but there are more than a few errors and/or minor stumbles. | Several typos or slides are not well organized; presentation is rough. | There are many issues with the slides. Presentation does not appear to have been practiced; the presenter is unsure of the material. |
| Ensemble (20 points) | Presentation moves smoothly forward from person to person. Each team member did a fair share of the preparation and of the presentation. Self-assessment is complete and all members agree that the workload was evenly divided. | Some small hiccups in transitions. The workload was fairly even, but a subset of the group did measurably more than the rest. Self-assessments are complete, but there is some indication that the workload was not evenly divided. | The team talked over each other. Some presenters were much more prepared than others, leading to weak points in the presentation. A subset of the group did significantly more than the rest. The self-assessments note problems in the group effort. | There were many interruptions during the presentation. A subset of the group did the bulk of the work, while the rest did little. The self-assessments show significant issues in the group effort. |

**Name:** _____

| | Excellent (90%+) | Good (75-90%) | Fair (60-75%) | Poor (0-60%) |
|---|---|---|---|---|
| Correctness (50 points) | | | | |
| Clarity (40 points) | | | | |
| Presentation (40 points) | | | | |
| Ensemble (20 points) | | | | |