# Infinities

## Math 205, Fall 2019

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| Meetings: | MW 2:00–2:50, 41 Knight Library |
| Instructor: | Nick Addington |
| Office: | 208 Fenton Hall |
| E-mail: | adding@uoregon.edu |
| Office Hours: | Thursdays 2:00–3:00, and by appointment. |
| TA: | Ryan Takahashi |
| Office: | 216M Deady Hall |
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| Office Hours: | Tuesdays 2:00-3:00, and by appointment. |
| Web Page: | http://pages.uoregon.edu/adding/courses/205/ |

**Grading.** Pass/no pass. The passing grade is 85%, based on the following:

- **Attendance and participation (2 points per day, 38 points total).** Each week we will discuss a setting in which some notion of infinity appears, both in small groups and as a large group. I will do some lecturing, but hopefully not a lot.
- **Weekly write-up (4 points each, 36 points total).** Due Mondays. Write an expository account of the topic we explored the week before. If you like you can structure it as a letter to a friend or colleague. These must be turned in on time and taken seriously, but it's ok if they contain mistakes.

  You must use TEX, the standard software for typing mathematics. We will provide resources to help you learn it.
- **Final portfolio (26 points).** Select three of your earlier write-ups to revise and expand.

This is a 2-credit course, so you should expect to spend 4 hours a week outside of class.

**Learning outcomes.** The goal of the MathLabs is to help students make the transition from the kind of "procedure-driven" mathematics that they see in K-12 education (and that to some extent continues in lower-division college courses) to the more creative engagement with mathematics that is required for upper-division math courses. Students will get practice writing mathematics rather than just calculating, and discussing and thinking about open-ended questions. They will learn the basics of TEX.