

Math 101!
October 30, 2001

Announcements:

The assignment passed out on Tuesday the 23rd should say §N3.3: #2, #3, and #4 (not #5 as originally indicated). As in any mathematics class, please go over your homework when it is returned. Sections and office hours are great opportunities for asking questions you might still have about the last assignment, and also for getting hints about the next. If the scheduled times do not work for you or if you have other questions of any kind, please do not hesitate to contact any of the course staff.

Reading:

Continue working on Chapter Four of the Notes (N4) as posted on the website.
Study Chapters Five and Six (N4 and N5) of the Notes.
For more about completeness, see also §W9.1 in Wolf.
And there is more about Dedekind cuts in §W9.5 in Wolf.

Problem Set:

- A. In the Notes, §N4.2: #1, #3, #4, and #5.
- B. In the Notes, §N4.3: #1 and #2 (What is the difference between this and Thm 4.7?).
- C. In the Notes, §N4.4: #1, #2, #4, and #5 (Discuss #5 briefly without proof).

Activities:

Here is an activity that can count as a group project: investigate the real numbers by doing at least three Wolf problems from among #7 through #12 of §N9.5 about Dedekind cuts, then also at least three problems from among the six exercises in Chapter N5 of the Notes. Lots of help with these, along with other fun facts about rational and irrational numbers, will be covered in sections this week.