36 Pre-exam Q&A

McMaster University

Mathematics and Statistics

$$\int_M d\omega = \int_{\partial M} \omega$$

Mathematics 3A03
Real Analysis I

Instructor: David Earn

Lecture 36
Pre-exam Q&A
Monday 8 April 2019

Please consider. . .

5 minute *Student Respiratory Illness Survey:*

https://surveys.mcmaster.ca/limesurvey/index.php/893454

> *Please complete this anonymous survey to help us monitor the patterns of respiratory illness, over-the-counter drug use, and social contact within the McMaster community. There are no risks to filling out this survey, and your participation is voluntary. You do not need to answer any questions that make you uncomfortable, and all information provided will be kept strictly confidential. Thanks for participating.*
>
> *–Dr. Marek Smieja (Infectious Diseases)*

Announcements

- Assignment 6 due before class today; solutions will be posted today.

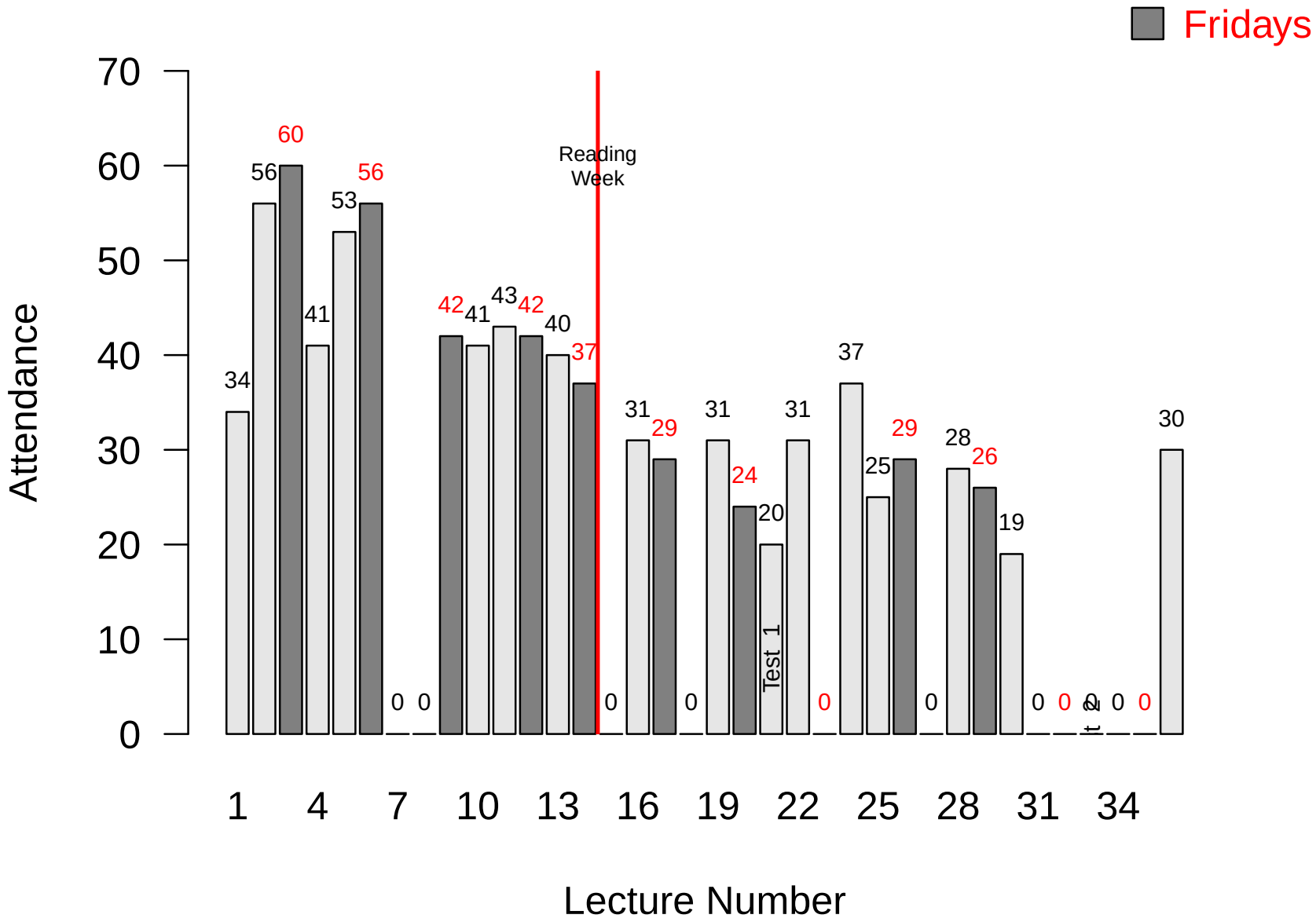
Last time:

- Surreal numbers.

Today:

- Course evaluations
- Discussion of Test 2.
- Discussion of Final Exam.
- Q&A.

Attendance


Fridays
Attendance
Lecture Number
Reading Week
Test 1
Test 2
70
60
50
40
30
20
10
0
1
4
7
10
13
16
19
22
25
28
31
34
34
56
60
41
53
56
0
0
42
41
43
42
40
37
0
31
29
0
31
24
20
31
0
37
25
29
0
28
26
19
0
0
0
0
30

Course Evaluations

Please complete the course evaluation for Math 3A03:

https://evals.mcmaster.ca

- Course Evaluations FAQ:
  https://evals.mcmaster.ca/login.php#faq
- Percentage of students who have completed the course evaluation:
  https://evals.mcmaster.ca/fac_stat.php?fac=SCIENCE

Final exam

What you need to know:

- Everything discussed in class, including all definitions/concepts and theorems/lemmas/corollaries
  - EXCEPT: **not** Dr. Dushoff's guest lecture on construction of numbers from games.
- Everything in assignments and tests. *Make sure you fully understand all the solutions to all the problems in all the assignments and tests.*
- Most—but not all—of the material that you are responsible for is covered in chapters 1, 2, 4, 5, 7, 8, 9, 10 of the textbook. You are not responsible for material in the textbook that was not covered in lectures or assignments.
- It is essential that you understand how to use the definitions and theorems to construct proofs.

Final exam

Other comments:

- You will not be asked to list all the axioms for the the real number system. BUT, you must be able to state the *completeness axiom* concerning least upper bounds.
- There are many additional problems (in the textbook and elsewhere) that would be good to try for practice.
- Remember that all assignments and tests with solutions (for this and previous years) are available on the course web site. Tutorial questions and solutions are also posted.
- Office hour today at 1:30pm as usual.
- Extra office hours 1:30–3:00pm on Thursday (11 April 2019).
- Check course web site for any further info (*e.g.*, TA office hours, updates, . . .)
- Structure of the exam. . .

Thank you!

Winter 2019
Course Evaluations

Open: Wednesday March 27, 10:00AM
Close: Wednesday April 10, 11:59PM

evals.mcmaster.ca

#macevals2019

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