

Math 15200/14 Homework 7

Due date: Thursday, November 21, 2019, 5pm (in my mailbox in Eckhart basement)

Please present your solutions clearly and in an organized way. Think of it this way: if you show it to another student in this class, he/she should be able to understand it without needing to ask you questions.

## November 14

Goals:

- Practice computing derivatives and integrals with logarithm and exponential functions.

### Exercises 7.3:

- 21, 35, 45

### Exercises 7.4:

- 1, 5, 19, 27, 29, 31, 33, 47, 51, 53, 57, 59

### Exercises 7.5:

- 23, 27, 31

## November 19

Goals:

- Practice integrating and differentiating the arcsin and arctan functions.

### Exercises 7.7:

- 1, 3, 6: note that each question has part (a) and part (b)
- 15, 19, 39, 41, 53, 55, 57, 59, 61
- 66: answer should be  $\pi^2/8$
- 67, 75

**This is all for HW 7.**