

Math 15200/14 Homework 3

Due date: Thursday, October 24, 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.

October 17

Goals:

- Practice integrals, especially with u -substitution
- Reason with some basic properties of integrals

Exercises 5.6:

- 21, 29, 51, 53

Exercises 5.7:

- 13, 21, 49, 71, 82, 83

Exercises 5.8:

- 1–6: If a statement is true, you can justify by giving a geometric explanation or by using one of the properties in Section 5.8. If a statement is false, you can give a counterexample. A sketch of f and g with a brief explanation would be fine. (It may help to think about these statements geometrically, like we did in class.)

This is all for HW 3. (No problems will be added on Tuesday.)