

Preparing for Class 10

Reading: Read *H-H* Section 6.1 and *H-H* Section 3.4.

Problems: *H-H* pp. 297-298 #1, 2, 3, 4, 12, 13, 14

Wednesday, February 14*Class 10:***Properties of Integrals**

Integrals are the limits of Riemann sums. Accordingly, they inherit many of the properties of sums. We will discuss these properties, most of which will already be familiar to you from your work with integrals thus far in the course. Since antiderivatives can be written as accumulation functions, and since accumulation functions are based on integrals, antiderivatives share many of these properties as well. This gives another perspective on these properties. For every property for derivatives there is a related property of antiderivatives. Your work on derivatives last semester will thus pay off this semester!

Take-Home Quiz on the Fundamental Theorem of Calculus Handed Out**Lab 3: Antiderivatives**

The *Derivatives* Gateway exam will also be administered during this lab.

Preparing for Class 11

Reading: *H-H* Section 6.2. Review *H-H* Section 3.4.

Problems: *H-H* pp. 174-175 #14, 18, 19, 20, 21, 22, 23

Friday, February 16*Class 11:***Antiderivative Workshop**

In this class you will build on your work with elementary antiderivatives in lab and with properties of antiderivatives to find somewhat more involved antiderivatives. You will use these antiderivatives together with the Fundamental Theorem of Calculus to evaluate definite integrals and solve initial value problems.

Take-Home Quiz on the Fundamental Theorem of Calculus Due at the Beginning of Class 11

Preparing for Class 12

Review for our First Exam.

A review guide (with review problems) will be handed out in class on Friday.

Monday, February 19: NO CLASS!

Wednesday, February 21

Class 12:

Review of Unit 1

Week 4 Homework Due: Hand in homework preparing for Classes 10, 11, and 12.

Lab this week will continue the reievw for the exam.

First Exam: Thursday, February 22, 6:30-9:30 pm.