

Reminder:

Exam 1 is scheduled for Tuesday September 26 from 6:30 to 9:30 in Fowler 302. More information can be found on the web: <http://www.ron.oxy.edu/math/110/00/> . Also check e-mail for further guidelines.

Preparing for Class 13

Review for the exam and come prepared with questions.

Homework Due: All problems assigned as preparation for Classes 11 and 12 are due.

Gateways: If you have not yet passed the first Gateway, you should make plans to attend the Gateway workshops for tutoring and retesting ASAP. This is not an optional part of the course! We'll have another Gateway soon!

Monday, September 25*Class 13:***Open Question and Answer Session for Unit 1**

We'll answer any questions you may have concerning Unit 1 (short of what problems will be on the test!)

Tuesday, September 26

Exam 1, Tuesday, September 26 from 6:30 to 9:30 in Fowler 302.

Preparing for Class 14

Having just taken the first exam, you can take the rest of the night off from Calculus!

Wednesday, September 27*Class 14:***Average and Instantaneous Velocity**

In the first unit, we used the graph of motion with a constant velocity to make the connection between rates of change and slopes of lines. Without being too precise about it, we adapted this idea to talk about rates of change for functions even if their graphs were not straight lines. The goal of the second unit of this course is to precisely define what we mean by such a rate of change and to explore the implications of this definition. As motivation, we will again consider motion and velocity.

NO Take-Home Quiz This Week!

Lab 5: Introduction to Limits and the Derivative

Preparing for Class 15

Reading: *H-H*, Section 2.1

Problems: *H-H* Section 2.1, #4 - 7, #9 - 12.

Friday, September 29

Class 15:

Derivative of a Function at a Point

This week's lab will have given you some good experience with estimating the rate of change of a function at a point. Drawing on this experience, we will define the *derivative of a function at a point*. We will also look at some specific examples. In modeling applications, the derivative will have the interpretation as a rate of change. However, from this point on in the course we will increasingly use the technical term "derivative" to refer to this.