

## MIDTERM EXAMINATION 1

The examination will take place on **Friday, October 30**. Do not go to the usual classroom on that date. Instead, ALL students will take the exam in

BROAD 2160E

The examination will cover the following sections of the text: Chapter 2, Sections 3, 4, 5, 6 (omit the proof of Theorem 3) and 7 and Chapter 3, Sections 1 (omit "Estimating the Derivative"), 2, 3, 5, 6, 7 and 8.

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The front page of the examination will contain the following information:

**Instructions** Read each question carefully and answer it in the space provided. Do all your work on the examination paper, scratch paper is not permitted. There should be sufficient space to write the solution to each problem. However, if you do need more room, you can continue the problem on another page but, if you do, write "continued on page x" so the grader can find it. Calculators and computers may not be used on examinations, nor may you use any books or notes except for one 3 by 5 index card of notes. You will be given 50 minutes to complete the examination. If you finish early, you may place your examination paper in the location indicated by the proctor and leave. All students remaining at the end of the hour will be asked to stand up immediately and to turn in their examination papers in an orderly manner, following the directions of the proctors.

Use appropriate formulas to find derivatives unless the instructions specifically state that the definition involving limits must be used to determine the derivative. You may use only techniques taught in Math 31A to calculate limits. In particular, you may not use L'Hospital's Rule (calculation of derivatives of numerator and denominator) to find a limit.

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Solutions to the examination questions will be posted on the course Web site at some time after the exam. Numerical exam scores, along with information on the exam median, will be available on MyUCLA after all the exams are graded. Graded examinations will be returned by the teaching assistants starting with the discussion sections of Nov. 3. In order for your examination paper to be given to the teaching assistant from whom you wish to pick it up, you must circle the name of that teaching assistant in the place indicated on the front of the examination paper. Prof. Brown will hold extra office hours on Thursday, October 29 from 1:30 to 2:30 and from 4:00 to 5:00.