

Calculus I, Math 170, Kriloff Sample Exam 1

The best way to prepare for an exam is to actually take one under the same circumstances as the real thing, just as musicians do dress rehearsals, football players play scrimmages, and athletes in general train under conditions similar to those they will play in, compete in, etc. The method below is intended to help you identify the areas you most need to work on and thus make the time spent studying most effective.

1. Compile an exam from the questions below by writing out the problems on slips of paper and shuffling the papers.
2. Take the exam with a time limit of 55 minutes with no books or notes available and no distractions.
3. Practice working more problems from the sections on material you had difficulty with and analyze your test taking strategies using the strategies on the back.
4. Take a second sample exam in the same way and work on improvement.

Choose questions for the sample exam as follows. Review 1 is on pages 56-58, Review 2 is on pages 124-125, and Review 3 is on pages 214-217.

1 from Review 1 #1-18, 20.

3 from True-False quizzes, p. 57, p. 124, p. 214

2 from Review 2 #3-18, 23, 24, 35 or Review 3 #41, 42.

1 from Review 2 #1, 2, Review 3 #1, 4-7, 8, 54, 65 (ignore f'' if asked), or similar graphical problems in section exercises.

1 from Review 2 #29, 30 or Review 3 #2, 9-12.

2 from Review 3 #13, 14, 20, 21, 27, 43, 45, 55, 61 or 3.2 #17-25.

1 from Review 2 #31, 32, Review 3 #66, 67 (just velocity), 68, or from Section 3.4.

1 definition or theorem statement

This is not a guarantee about the content or length of the actual exam. However, I do promise that I will carefully time how long it takes me to take the exam to measure its length, and that it will include one question asking you to state one of the important definitions or theorems.

You will probably also find it helpful to

1. understand and correct errors on old quizzes (remember solutions are posted on the bulletin board outside PS 316C),
2. organize the important material into your own study guide, and/or
3. work through the Concept Check at the end of each chapter.

While rereading and reorganizing the material will be useful, it will generally be more productive per unit of study time for you to be actively working problems and checking them. As you do so, focus on increasing speed and accuracy and avoid relying on the book or notes.