

[11-10-04-T11]

Notes for first exam

The first exam will cover [1] pages 1-14 in the textbook Basic Analysis and [2] the material presented in class about functions.

For [1], the problems in the textbook and in the problem sets will be a very good guide to the kinds of questions that will be on the exam. You should be sure that you can work the problems assigned in [09-01-21-NEM11] sections [1.1] and [1.2]. If you misplaced a problem set, it is easy to get another one from my web site.

Note that *proficiency* will be emphasized. This means, quoting from the course syllabus, "that you can work a problem in a couple of minutes using the recent material we covered, rather than suffering 15 minutes of furious labor because you were unfamiliar with the recent material we covered." The exam will be time limited.

For [2], expect to use the definitions of function, inverse function, 1-1 function, increasing (decreasing) function to prove that particular relations are (are not) of these kinds. The proofs will not be hard, if you understand the definitions and have practiced applying them. The point of the proofs will not be to find out how clever you are at proving, but rather how well you understand the concepts the proof treats. Also, remember that function composition is included in the material we covered.