

Math 5680
Test 1 Study Guide

Topics:

Test 1 covers HW 0, HW 1, HW 2.

I'll put some problems directly from the homework on the test.

Computations / Computational proofs:

- Limits of a sequence
HW 0 – # 1(a), 2(a)
- Does a series converge and if so what to?
HW 1 - # 1
- Does a series converge? Does it converge absolutely?
HW 1 - # 6
- Showing a sequence of functions converges to another function, pointwise or uniformly.
HW 2 - # 1, 2
- Using the analytic convergence theorem on a series
HW 2 - # 3, 4, 5

Proofs:

- Proofs about sequences
HW 0 - # 3, 4, 5
- Proofs about series
HW 1 - # 2, 3, 4, 5, 7
HW 2 - #6