

## Partial review for Midterm 2

This is a partial review sheet. I'm not going to repeat the discussion of tests for series as organized in the handout "Tests for series". Being able to use those tests will be at least 1/2 the exam. In addition, you should know:

- The definition of convergence for a sequence.
- How to decide whether a limit of a sequence exists, and compute some limits.
- The definition of convergence for a series, as well as absolute and conditional convergence.
- How to decide whether a series converges, absolutely or conditionally.
- How to find Taylor series for a function  $f$  and decide if it converges to  $f$ , e.g. know Taylor's Theorem.
- The definition of power series and radius and interval of convergence.
- How to find the radius and interval of convergence for a power series.