Math 338 – Suggested Problems and Goals
Week of 9/17 - 9/24

Understand what is meant by *piecewise smooth* and operate with piecewise smooth functions. Problems 1,2 page 33.

Work with pointwise convergence of Fourier series. Problems 1 – 5 and 6a, page 41. The second part of problem 6a was known in Euler’s time as the Basel problem and his solution, given in 1735 when he was 28 years old, made him immediately famous.

Continue practice with finding Fourier series, problem 3, p. 45.

Work with differentiation and integration of Fourier series, problems 2 and 5, p. 58.