EE 210 Signals and Systems

Week 6 Summary:

- 1. Existence conditions and convergence behavior of Fourier series; Gibbs' phenomenon
- 2. Optimality of Fourier series coefficients in terms of minimizing m.s.e.
- 3. Properties of Fourier series
- 4. Frequency response of LTI systems, and computing LTI system output via Fourier series representation of periodic input signals

Homework exercises

3.19, 3.25, 3.33, 3.35, 3.40, 3.41, 3.43