EE 210 Signals and Systems

Week 2 Summary:

1. Even and odd signals; even and odd components of a signal
2. Systems, and interconnections of systems
3. Basic properties of systems: memory, invertibility, causality, stability
4. Basic properties continued: time-invariance, linearity
5. Examples of c-t and d-t systems with one or more of the properties
6. Linear differential equations with constant coefficients as math models for a class of c-t LTI systems

Homework exercises (all problems from the textbook: Alan V. Oppenheim and Alan S. Willsky with S.H. Nawab, Signals and Systems, Second Edition, PHI (Indian reprint: 2014)). The problems are also provided in the accompanying files.

1.15,

1.19 (a,d),

1.27,

1.28 (a,g).