

EECE369 - Signals and Systems

Reading Material

Text book: Alan V. Oppenheim, Alan S. Willsky - Signals & Systems. 2nd ed. , Prentice Hall
Ch 1 - Introduction to signals and systems

Goals:

- understand the complementarity between signals and systems in analyzing, modeling and simulating various phenomena
- basic system properties - learning how to analyze and prove certain system characteristics
- basic classes of signals
- elementary signals
- elementary operations on signals, viewed as the action of systems upon an input signal
- structural representation of systems in terms of block diagrams and signal flow graphs

Problems

1. Determine the cartesian form and the magnitude of the following complex number: $z = \frac{1 + 2j}{3 - 4j}$

Ex 1.4 (b),(d)

Ex 1.6 (b),(c)

Ex 1.9 (e)

Ex 1.13

Ex 1.15

Ex 1.21 (c),(e)

Ex 1.26(d)

Ex 1.27 (a),(g)

Ex 1.28 (g)

Ex 1.31

Ex 1.36