Problem 1.1 :

Given: Is each of the following 1-D signals:

- Analog or digital?
- Continuous-time or discrete-time?

Find:

a. Daily closes of the stock market.

b. Output from phonograph-record pickup.

- words

Problem 1.2 :

Given:
Find:

a.

c.

Answer Section

Problem 1.3 :

Given:
Find:

b.

c.

Answer Section

Problem 1.4 :

Given:
Find:

a.

Answer Section

Problem 1.6 :

Given:
Find:

b.

Answer Section

Problem 1.7 :

Given:
Find:

Answer Section

Problem 1.11 :

Given:
Find:

Answer Section

Problem H :

Given: Euler's formula
Find: Show how to derive

$$\cos x = \frac{e^{jx} + e^{-jx}}{2}$$

and

$$\sin x = \frac{e^{jx} - e^{-jx}}{2j}$$

Answer Section

Problem I :

Given: The discusion in Lecture and the lecture notes.
Find: List at least ten examples of signals encountered in real life.

Answer Section