

# Chapter 1 Solutions

## Solution 1.1-1

$$(a) \quad E = \int_0^2 (1)^2 dt + \int_2^3 (-1)^2 dt = 3$$

$$(b) \quad E = \int_0^2 (-1)^2 dt + \int_2^3 (1)^2 dt = 3$$

$$(c) \quad E = \int_0^2 (2)^2 dt + \int_2^3 (-2)^2 dt = 12$$

$$(d) \quad E = \int_0^3 (1)^2 dt + \int_3^6 (-1)^2 dt = 3$$

Comments: Changing the sign of a signal does not change its energy. Doubling a signal quadruples its energy. Shifting a signal does not change its energy. Multiplying a signal by a constant  $K$  increases its energy by a factor  $K^2$ .

## Solution 1.1-2

$$E_x = \int_0^1 t^2 dt = \frac{1}{3} t^3 \Big|_0^1 = \frac{1}{3},$$

$$E_{x1} = \int_{-1}^0 (-t)^2 dt = \frac{1}{3} t^3 \Big|_{-1}^0 = \frac{1}{3}.$$

$$E_{x+1} = \int_0^1 (-t)^2 dt = \frac{1}{3} t^3 \Big|_0^1 = \frac{1}{3}.$$

$$E_{x+1} = \int_1^2 (t-1)^2 dt = \int_0^1 x^2 dx = \frac{1}{3}.$$

$$E_{x+1} = \int_0^1 (2t)^2 dt = \frac{4}{3} t^3 \Big|_0^1 = \frac{4}{3}$$

## Solution 1.1-3

(a)

$$E_x = \int_0^2 (1)^2 dt = 2.$$

$$E_y = \int_0^1 (1)^2 dt + \int_1^2 (-1)^2 dt = 2.$$

$$E_{x+y} = \int_0^1 (2)^2 dt = 4.$$

$$E_{x-y} = \int_1^2 (2)^2 dt = 4$$

Therefore  $E_{x+y} = E_x + E_y$ .

(b)

$$E_x = \int_0^{2\pi} \sin^2 t dt = \frac{1}{2} \int_0^{2\pi} (1) dt - \frac{1}{2} \int_0^{2\pi} \cos(2t) dt = \pi + 0 = \pi$$

$$E_y = \int_0^{2\pi} (1)^2 dt = 2\pi$$

# Instructor Manual Linear System And Signals

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