

Chapter 1: Fundamental Concepts

1.1 (f)

(a) $x(t) = p_2(t) + p_4(t)$

(b) $x(t) = \frac{4}{3} \left(1 - \frac{|t|}{4}\right) p_8(t) - \frac{1}{3} (1 - |t|) p_2(t)$

(c) $x(t) = 2p_{12}(t) + 2p_6(t) + 2 \left(1 - \frac{|t|}{3}\right) p_6(t)$

(d) $x(t) = 4p_4(t) - 2 \left(1 - \frac{|t|}{2}\right) p_4(t)$

(e) $x(t) = \sum_{k=1}^{\infty} p_1(t - 2k + 1.5)$

1.1 (h) Simplest to define t and x as follows, then use the MATLAB command `plot(t,x)`

(a) $t = [-3 -2 -2 -1 -1 1 1 2 2 3];$

$x = [0 0 1 1 2 2 1 1 0 0];$

(b) $t = [-5 -4 -1 1 4 5];$

$x = [0 0 1 1 0 0];$

(c) $t = [-7 -6 -6 -3 -3 0 3 3 6 6 7];$

$x = [0 0 2 2 4 6 4 2 2 0 0];$

(d) $t = [-3 -2 -2 0 2 3];$

$x = [0 0 4 2 4 0 0];$

(e) $t = [-1 0 0 1 1 2 2 3 3 4 4 5 5 6];$

$x = [0 0 1 1 0 0 1 1 0 0 1 1 0 0];$

1.2 (a) $\omega = \pi$, so $\Delta t < \pi/\omega = 1$; $\sin(\pi(\Delta t)) = 0$ for all integers π when $\Delta t = 1$

(b) $\omega = \pi$, $\sigma = 0.1$, so $\Delta t \leq \frac{\pi}{4\sqrt{(0.1)^2 + \pi^2}} = 0.25$

(c) $\omega = \pi/4$, $\sigma = 1$, so $\Delta t \leq \frac{\pi}{4\sqrt{1^2 + (\pi/4)^2}} = 0.6177$

Fundamentals Signals And Systems Using Matlab Solution

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