

## Chapter 1: Fundamental Concepts

### 1.1 (1)

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

(b)  $x(t) = \frac{4}{3} \left(1 - \frac{|t|}{4}\right) p_6(t) - \frac{1}{3} (1 - |t|) p_2(t)$

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

### 1.1 (2) Simplest to define $t$ and $x$ as follows, then use the MATLAB command plot (t, x)

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

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

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

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

(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 $\Delta\omega < \pi/2\pi = 1$ ; $\sin(n(\Delta\omega)) = 0$ for all integers $n$ when $\Delta\omega = 2$

(b)  $\omega = \pi$ ,  $\alpha = 0.1$ , so  $\Delta\omega \leq \frac{\pi}{4\sqrt{(0.1)^2 + \pi^2}} = 0.23$

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

# Solution Manual Fundamentals Of Signals And

**D. Sundararajan**

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