Chapter 1 Answers

1.1. Converting from polar to Cartesian coordinates:

$2e^{j\pi} = 2\cos\pi + j2\sin\pi = -2$. $\quad \frac{1}{2}e^{-j\frac{\pi}{2}} = \frac{1}{2}\cos(-\frac{\pi}{2}) + j\frac{1}{2}\sin(-\frac{\pi}{2}) = -\frac{j}{2}$

$e^{j\frac{\pi}{2}} = \cos(\frac{\pi}{2}) + j\sin(\frac{\pi}{2}) = j$. $\quad e^{-j\frac{\pi}{2}} = \cos(\frac{\pi}{2}) - j\sin(\frac{\pi}{2}) = -j$

$e^{j\pi} = e^{j\frac{\pi}{2}} = j$. $\quad \sqrt{2}e^{j\frac{\pi}{4}} = \sqrt{2}\cos(\frac{\pi}{4}) + j\sqrt{2}\sin(\frac{\pi}{4}) = 1 + j$

$\sqrt{2}e^{j\frac{\pi}{4}} = \sqrt{2}e^{j\frac{3\pi}{4}} = -1 + j$. $\quad \sqrt{2}e^{-j\frac{\pi}{4}} = \sqrt{2}e^{-j\frac{3\pi}{4}} = 1 - j$

$\sqrt{2}e^{-j\frac{3\pi}{4}} = 1 - j$

1.2. Converting from Cartesian to polar coordinates:

$3 = 3e^{j0}$. $\quad -2 = 2e^{j\pi}$. $\quad -3j = 3e^{-j\frac{\pi}{2}}$

$\frac{1}{2} - j\frac{\sqrt{3}}{2} = e^{-j\frac{\pi}{3}}$. $\quad 1 + j = \sqrt{2}e^{j\frac{\pi}{4}}$. $\quad \frac{1}{2} - \frac{j}{2} = \frac{1}{2}e^{-j\frac{\pi}{4}}$

$j(1 - j) = e^{j\frac{\pi}{2}}$. $\quad \frac{1+j}{1-j} = e^{j\frac{\pi}{2}}$. $\quad \frac{(1+j)^2}{(1-j)(1+j)} = e^{j\frac{\pi}{2}}$

1.3. (a) $E_{x_a} = \int_0^\infty e^{-2t}dt = \frac{1}{2}$. $P_{x_a} = 0$, because $E_{x_a} < \infty$.

(b) $x_b(t) = e^{j(2t-\frac{\pi}{4})}$, $|x_b(t)| = 1$. Therefore, $E_{x_b} = \int_{-\infty}^{\infty}|x_b(t)|^2dt = \int_{-\infty}^{\infty}dt = \infty$. $P_{x_b} = \lim_{T\to\infty}\frac{1}{2T}\int_{-T}^{T}|x_b(t)|^2dt = \lim_{T\to\infty}\frac{1}{2T}\int_{-T}^{T}dt = \lim_{T\to\infty}\frac{2T}{2T} = 1$.

(c) $x_c(t) = \cos(t)$. Therefore, $E_{x_c} = \int_{-\infty}^{\infty}|x_c(t)|^2dt = \int_{-\infty}^{\infty}\cos^2(t)dt = \infty$.

$P_{x_c} = \lim_{T\to\infty}\frac{1}{2T}\int_{-T}^{T}\cos^2(t)dt = \lim_{T\to\infty}\frac{1}{2T}\int_{-T}^{T}\left(\frac{1+\cos(2t)}{2}\right)dt = \frac{1}{2}$

(d) $x_d[n] = \left(\frac{1}{2}\right)^n u[n]$. $|x_d[n]|^2 = \left(\frac{1}{4}\right)^n u[n]$. Therefore, $E_{x_d} = \sum_{n=-\infty}^{\infty}|x_d[n]|^2 = \sum_{n=0}^{\infty}\left(\frac{1}{4}\right)^n = \frac{4}{3}$.

$P_{x_d} = 0$, because $E_{x_d} < \infty$.

(e) $x_e[n] = e^{j(\frac{\pi}{2}n - \frac{\pi}{8})}$, $|x_e[n]|^2 = 1$. Therefore, $E_{x_e} = \sum_{n=-\infty}^{\infty}|x_e[n]|^2 = \infty$.

$P_{x_e} = \lim_{N\to\infty}\frac{1}{2N+1}\sum_{n=-N}^{N}|x_e[n]|^2 = \lim_{N\to\infty}\frac{1}{2N+1}\sum_{n=-N}^{N}1 = 1$.

(f) $x_f[n] = \cos(\frac{\pi}{4}n)$. Therefore, $E_{x_f} = \sum_{n=-\infty}^{\infty}|x_f[n]|^2 = \sum_{n=-\infty}^{\infty}\cos^2(\frac{\pi}{4}n) = \infty$.

$P_{x_f} = \lim_{N\to\infty}\frac{1}{2N+1}\sum_{n=-N}^{N}\cos^2(\frac{\pi}{4}n) = \lim_{N\to\infty}\frac{1}{2N+1}\sum_{n=-N}^{N}\left(\frac{1+\cos(\frac{\pi}{2}n)}{2}\right) = \frac{1}{2}$

1.4. (a) The signal $x[n]$ is shifted by 3 to the right. The shifted signal will be zero for $n < 1$ and $n > 7$.

(b) The signal $x[n]$ is shifted by 4 to the left. The shifted signal will be zero for $n < -6$ and $n > 0$.

1.5. (a) $\Re e\{x_a(t)\} = -2 = 2e^{j\pi}\cos(2t + \pi)$

(b) $\Re e\{x_b(t)\} = \sqrt{2}\cos(\frac{\pi}{4})\cos(3t + 2\pi) = \cos(3t) = e^{j0}\cos(3t + 0)$

(c) $\Re e\{x_c(t)\} = e^{-t}\sin(3t + \pi) = e^{-t}\cos(3t + \frac{\pi}{2})$

(d) $\Re e\{x_d(t)\} = -e^{-2t}\cos(100t) = e^{-2t}\cos(100t + \pi) = e^{-2t}\cos(100t + \frac{\pi}{2})$

1.6. (a) $x_a(t)$ is a periodic complex exponential.

$$x_a(t) = je^{j\frac{\pi}{2}t} = e^{j(\frac{\pi}{2}t + \frac{\pi}{2})}$$

The fundamental period of $x_a(t)$ is $\frac{2\pi}{\pi/2} = 4$.

(b) $x_b(t)$ is a complex exponential multiplied by a decaying exponential. Therefore, $x_b(t)$ is not periodic.

(c) $x_c[n]$ is a periodic signal.

$$x_c[n] = e^{j\frac{\pi}{4}n} = e^{j\frac{\pi}{4}(n+8)}$$

$x_c[n]$ is a complex exponential with a fundamental period of $\frac{2\pi}{\pi/4} = 8$.

(d) $x_d[n]$ is a periodic signal. The fundamental period is given by $N = m(\frac{2\pi}{2\pi/3}) = m(\frac{3}{1})$. By choosing $m = 3$, we obtain the fundamental period to be 10.

(e) $x_e[n]$ is not periodic. $x_e[n]$ is a complex exponential with $\omega_0 = 3/5$. We cannot find any integer m such that $m(\frac{2\pi}{3/5})$ is also an integer. Therefore, $x_e[n]$ is not periodic.

1.10.

$$x(t) = 2\cos(10\pi + 1) - \sin(4\pi - 1)$$

Period of first term is $2\pi/5\pi = \frac{2\pi}{5\pi} = \frac{2}{5}$

Period of second term is $2\pi/4\pi = \frac{2\pi}{4\pi} = \frac{1}{2}$

Therefore, the overall signal is periodic with a period which is the least common multiple of the periods of the first and second terms. That is equal to 2.

1.11.

$$x[n] = 1 + e^{-j\frac{\pi}{2}n} - e^{j\frac{\pi}{4}n}$$

Period of the first term in the RHS = 1

Period of the second term in the RHS $= m(\frac{2\pi}{\pi/2}) = 7$ (when $m = 2$)

Period of the third term in the RHS $= m(\frac{2\pi}{\pi/4}) = 8$ (when $m = 1$)

Therefore, the overall signal $x[n]$ is periodic with a period which is the least common multiple of the periods of the three terms in $x[n]$. This is equal to 56.

1.12. The signal $x[n]$ is as shown in Figure S1.12. $x[n]$ can be obtained by flipping $u[n]$ and then shifting the flipped signal by 3 to the right. Therefore, $x[n] = u[-n + 3]$. This implies that $M = -1$ and $n_0 = -3$.

(c) The signal $x[n]$ is flipped. The flipped signal will be zero for $n < -4$ and $n > 2$.

(d) The signal $x[n]$ is flipped and the flipped signal is shifted by 2 to the right. This new signal will be zero for $n < -2$ and $n > 4$.

(e) The signal $x[n]$ is flipped and the flipped signal is shifted by 2 to the left. This new signal will be zero for $n < -6$ and $n > 0$.

1.13. (a) $x(3 - t)$ is obtained by flipping $x(t)$ and shifting the flipped signal by 3 to the right. Therefore, $x(1 - t)$ will be zero for $t > -2$.

(b) From (a), we know that $x(1 - t)$ is zero for $t > -2$. Similarly, $x(2 - t)$ is zero for $t > -1$. Therefore, $x(1 - t) + x(2 - t)$ will be zero for $t > -2$.

(c) $x(3t)$ is obtained by linearly compressing $x(t)$ by a factor of 3. Therefore, $x(3t)$ will be zero for $t < 1$.

(d) $x(t/3)$ is obtained by linearly stretching $x(t)$ by a factor of 3. Therefore, $x(t/3)$ will be zero for $t < 9$.

1.14. (a) $x_1(t)$ is not periodic because it is zero for $t < 0$.

(b) $x_2[n] = 1$ for all n. Therefore, it is periodic with a fundamental period of 1.

(c) $x_3[n]$ is as shown in the Figure S1.6.

Figure S1.6

Therefore, it is periodic with a fundamental period of 4.

1.15. (a)

$$x_e[n] = \frac{1}{2}[x_1[n] + x_1[-n]] = \frac{1}{2}[u[n] - u[n-4] + u[-n] - u[-n-4]] = \frac{1}{2}(u[n] - u[n-4] + u[-n] - u[-n-4])$$

Therefore, $x_e[n]$ is zero for $|n| > 3$.

(b) Since $x_1(t)$ is an odd signal, $x_o[n] = [x_1(t)] = 0$ for all values of t.

(c)

$$x_e[n] = \frac{1}{2}[x_2[n] + x_2[-n]] = \frac{1}{2}[(\frac{1}{2})^n u[n-3] - (\frac{1}{2})^{-n}u[-n-3]]$$

Therefore, $x_e[n]$ is zero when $|n| < 3$ and when $|n| \to \infty$.

(d)

$$x_o[n] = \frac{1}{2}[x_2[n] + x_2[-n]] = \frac{1}{2}[(\frac{1}{2})^n u[n-3] - 2^n u[-n+3]]$$

Therefore, $x_o[n]$ is zero only when $|n| \to \infty$.

Figure S1.12

1.16.

$$p(t) = \int_{-\infty}^{t}x(\tau)d\tau = \int_{-\infty}^{t}(\delta(\tau + 3) - \delta(\tau - 2))d\tau = \begin{cases} 0, & t < -3 \\ 1, & -3 \le t < 2 \\ 0, & t > 2 \end{cases}$$

Therefore,

$$E_{\infty} = \int_{-3}^{2}dt = 5$$

1.17. The signal $x(t)$ and its derivative $y(t)$ are shown in Figure S1.17.

Figure S1.17

Therefore,

$$y(t) = 3\sum_{k=-\infty}^{\infty}\delta(t - 2k) - 3\sum_{k=-\infty}^{\infty}\delta(t - 2k - 1)$$

This implies that $A_1 = 3$, $t_1 = 0$, $A_2 = -3$, and $t_2 = 1$.

1.18. (a) The signal $x_2[n]$, which is the input to S_2, is the same as $y_1[n]$. Therefore,

$$\begin{aligned} y_2[n] &= x_2[n-2] + \frac{1}{2}x_2[n-3] \\ &= y_1[n-2] + \frac{1}{2}y_1[n-3] \\ &= 2x_1[n-2] + 4x_1[n-3] + \frac{1}{2}(2x_1[n-3] + 4x_1[n-4]) \\ &= 2x_1[n-2] + 5x_1[n-3] + 2x_1[n-4] \end{aligned}$$

The input-output relationship for S is

$$y[n] = 2x[n-2] + 5x[n-3] + 2x[n-4]$$

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