

Chapter 1 Answers

- 1.1. Converting from polar to Cartesian coordinates:

$$\begin{aligned} \frac{1}{\sqrt{2}}e^{j\pi/4} &= \frac{1}{\sqrt{2}}\cos\pi/4 + j\frac{1}{\sqrt{2}}\sin\pi/4 = \frac{1}{2} + j\frac{1}{2} \\ e^{j\pi/4} &= \cos\left(\frac{\pi}{4}\right) + j\sin\left(\frac{\pi}{4}\right) = \frac{1}{\sqrt{2}} + j\frac{1}{\sqrt{2}} \\ e^{j\pi/2} &= \cos\left(\frac{\pi}{2}\right) + j\sin\left(\frac{\pi}{2}\right) = -j \\ e^{j3\pi/4} &= \cos\left(\frac{3\pi}{4}\right) + j\sin\left(\frac{3\pi}{4}\right) = -\frac{1}{\sqrt{2}} + j\frac{1}{\sqrt{2}} \\ e^{j\pi} &= \cos\pi + j\sin\pi = -1 \\ e^{j5\pi/4} &= \cos\left(\frac{5\pi}{4}\right) + j\sin\left(\frac{5\pi}{4}\right) = -\frac{1}{\sqrt{2}} - j\frac{1}{\sqrt{2}} \\ e^{j3\pi/2} &= \cos\left(\frac{3\pi}{2}\right) + j\sin\left(\frac{3\pi}{2}\right) = -j \\ e^{j7\pi/4} &= \cos\left(\frac{7\pi}{4}\right) + j\sin\left(\frac{7\pi}{4}\right) = \frac{1}{\sqrt{2}} - j\frac{1}{\sqrt{2}} \end{aligned}$$

- 1.2. Converting from Cartesian to polar coordinates:

$$\begin{aligned} 1 + j &= \sqrt{2}e^{j\pi/4} & -2 &= 2e^{j\pi} \\ \frac{1}{2} - j &= \sqrt{2}e^{j3\pi/4} & 1 + j &= \sqrt{2}e^{j\pi/4} \\ e^{j\pi/4} &= \cos\pi/4 + j\sin\pi/4 & e^{j3\pi/4} &= \cos3\pi/4 + j\sin3\pi/4 \\ e^{j\pi/2} &= \cos\pi/2 + j\sin\pi/2 & e^{j5\pi/4} &= \cos5\pi/4 + j\sin5\pi/4 \end{aligned}$$

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

$$\begin{aligned} \text{(a)} \quad x_1(t) &= e^{j\pi t} = 1, \quad |x_1(t)| = 1. \quad \text{Therefore, } E_{\text{avg}} = \int_{-\infty}^{\infty} |x_1(t)|^2 dt = \int_{-\infty}^{\infty} 1 dt = \infty, \quad P_{\text{avg}} = \\ &= \lim_{T \rightarrow \infty} \frac{1}{2T} \int_{-T}^T |x_1(t)|^2 dt = \lim_{T \rightarrow \infty} \frac{1}{2T} \int_{-T}^T 1 dt = \lim_{T \rightarrow \infty} \frac{1}{2T} (2T) = 1 \end{aligned}$$

$$\begin{aligned} \text{(b)} \quad x_2(t) &= \cos(2t). \quad \text{Therefore, } E_{\text{avg}} = \int_{-\infty}^{\infty} |x_2(t)|^2 dt = \int_{-\infty}^{\infty} \cos^2(2t) dt = \infty. \\ P_{\text{avg}} &= \lim_{T \rightarrow \infty} \frac{1}{2T} \int_{-T}^T \cos^2(2t) dt = \lim_{T \rightarrow \infty} \frac{1}{2T} \int_{-T}^T \left(\frac{1 + \cos(4t)}{2} \right) dt = 1 \end{aligned}$$

$$\begin{aligned} \text{(c)} \quad x_3(t) &= (1/2)^t e^{j\pi t}, \quad |x_3(t)|^2 = (1/2)^{2t} e^{j2\pi t} = (1/2)^{2t}. \quad \text{Therefore, } E_{\text{avg}} = \int_{-\infty}^{\infty} |x_3(t)|^2 dt = \int_{-\infty}^{\infty} (1/2)^{2t} dt = \frac{1}{2}, \\ P_{\text{avg}} &= 0, \quad \text{because } E_{\text{avg}} < \infty. \end{aligned}$$

$$\begin{aligned} \text{(d)} \quad x_4(t) &= e^{j\pi t} e^{j\pi t} = 1, \quad |x_4(t)|^2 = 1. \quad \text{Therefore, } E_{\text{avg}} = \int_{-\infty}^{\infty} |x_4(t)|^2 dt = \int_{-\infty}^{\infty} 1 dt = \infty, \\ P_{\text{avg}} &= \lim_{T \rightarrow \infty} \frac{1}{2T} \int_{-T}^T |x_4(t)|^2 dt = \lim_{T \rightarrow \infty} \frac{1}{2T} \int_{-T}^T 1 dt = \lim_{T \rightarrow \infty} \frac{1}{2T} (2T) = 1 \end{aligned}$$

$$\begin{aligned} \text{(e)} \quad x_5(t) &= \cos(t), \quad \text{Therefore, } E_{\text{avg}} = \int_{-\infty}^{\infty} |x_5(t)|^2 dt = \int_{-\infty}^{\infty} \cos^2(t) dt = \infty. \\ P_{\text{avg}} &= \lim_{T \rightarrow \infty} \frac{1}{2T} \int_{-T}^T \cos^2(t) dt = \lim_{T \rightarrow \infty} \frac{1}{2T} \int_{-T}^T \left(\frac{1 + \cos(2t)}{2} \right) dt = \frac{1}{2} \end{aligned}$$

- 1.4. (a) The signal $x(t)$ is shifted by 3 to the right. The shifted signal will be zero for $t < 1$ and $t > 7$.
(b) The signal $x(t)$ is shifted by 4 to the left. The shifted signal will be zero for $t < -4$ and $t > 8$.

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- 1.5. (a) $\Re\{x_1(t)\} = -2 + 2e^{j\pi t} \cos(2t) + e^{j\pi t}$
(b) $\Re\{x_2(t)\} = \sqrt{2} \cos(t) \cos(2t + 2\pi) = \cos(2t) = e^{j2\pi t} \cos(2t + \pi)$
(c) $\Re\{x_3(t)\} = e^{-t} \sin(2t + \pi) = -e^{-t} \sin(2t) = \frac{1}{2}j(e^{j2\pi t} - e^{-j2\pi t})$
(d) $\Re\{x_4(t)\} = -e^{j2\pi t} \sin(100t) = e^{j2\pi t} \sin(100t + \pi) = e^{j2\pi t} \cos(100t + \frac{\pi}{2})$

- 1.6. (a) $x_1(t)$ is a periodic complex exponential.

$$x_1(t) = e^{j\pi t} e^{j\pi t} = e^{j2\pi t} = 1$$

The fundamental period of $x_1(t)$ is $\frac{1}{2} = 0.5$.

- (b) $x_2(t)$ is a complex exponential multiplied by a decaying exponential. Therefore, $x_2(t)$ is not periodic.

- (c) $x_3(t)$ is a periodic signal.

$$x_3(t) = e^{j\pi t} = e^{j2\pi t}$$

$x_3(t)$ is a complex exponential with a fundamental period of $\frac{1}{2} = 0.5$.

- (d) $x_4(t)$ is a periodic signal. The fundamental period is given by $N = \text{mc}\left(\frac{1}{2}, 2\right) = \text{mc}\left(\frac{1}{2}\right)$. By choosing $m = 2$, we obtain the fundamental period to be 1.

- (e) $x_5(t)$ is not periodic. $x_5(t)$ is a complex exponential with $\omega_0 = 1/5$. We cannot find any integer m such that $\text{mc}\left(\frac{1}{5}, 2\right)$ is also an integer. Therefore, $x_5(t)$ is not periodic.

- 1.7.

$$x(t) = 2\cos(20t + 1) = \cos(40t + 2)$$

Period of first term in RMS = $\frac{1}{20} = 0.05$

Period of second term in RMS = $\frac{1}{10} = 0.1$

Therefore, the overall signal is periodic with a period which is the least common multiple of the periods of the first and second terms. This is equal to 0.1.

- 1.8.

$$x(t) = 1 + e^{j\pi t} - e^{j\pi/2 t}$$

Period of the first term in the RMS = 1

Period of the second term in the RMS = $\text{mc}\left(\frac{1}{2}, 1\right) = 2$ (when $m = 2$)

Period of the third term in the RMS = $\text{mc}\left(\frac{1}{2}, 2\right) = 1$ (when $m = 1$)

Therefore, the overall signal $x(t)$ is periodic with a period which is the least common multiple of the periods of the three terms in $x(t)$. This is equal to 2.

- 1.9.

- (a) The signal $x(t)$ is as shown in Figure S1.12. $x(t)$ can be obtained by flipping $x_1(t)$ and then shifting the flipped signal by 3 to the right. Therefore, $x(t) = x_1(t-3)$. This implies that $M = -3$ and $n_0 = -3$.

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- (c) The signal $x(t)$ is flipped. The flipped signal will be zero for $t < -4$ and $t > 2$.
(d) The signal $x(t)$ is flipped and the flipped signal is shifted by 2 to the right. This new signal will be zero for $t < -2$ and $t > 4$.
(e) The signal $x(t)$ is flipped and the flipped signal is shifted by 2 to the left. This new signal will be zero for $t < -6$ and $t > 6$.

- 1.10.

- (a) $x(t) = 0$ is obtained by flipping $x_1(t)$ and shifting the flipped signal by 1 to the right. Therefore, $x(t) = 0$ will be zero for $t > 2$.
(b) From (a), we know that $x(t) = 0$ is zero for $t > 2$. Similarly, $x(t) = 0$ is zero for $t < -1$. Therefore, $x(t) = 0$ will be zero for $t > -3$.
(c) $x(t)$ is obtained by linearly compressing $x_1(t)$ by a factor of 2. Therefore, $x(t)$ will be zero for $t < 1$.
(d) $x(t)$ is obtained by linearly stretching $x_1(t)$ by a factor of 2. Therefore, $x(t)$ will be zero for $t < 0$.

- 1.11.

- (a) $x_1(t)$ is not periodic because it is zero for $t < 0$.
(b) $x_2(t) = 1$ for all t . Therefore, it is periodic with a fundamental period of 1.
(c) $x_3(t)$ is as shown in the Figure S1.14.



Figure S1.14

Therefore, it is periodic with a fundamental period of 2.

- 1.12. (a)

$$f[x_1(t)] = \frac{1}{2} [x_1(t) + x_1(-t)] = \frac{1}{2} [x_1(t) + x_1(t-4)] = x_1(t-4) = x_1(t-4)$$

Therefore, $f[x_1(t)]$ is zero for $|t| > 2$.

- (b) Since $x_2(t)$ is an odd signal, $f[x_2(t)]$ is zero for all values of t .

- (c)

$$f[x_3(t)] = \frac{1}{2} [x_3(t) + x_3(-t)] = \frac{1}{2} [e^{j\frac{1}{2}t} + e^{j\frac{1}{2}(t-4)}] = e^{j\frac{1}{2}t} \cos(\pi) = -e^{j\frac{1}{2}t}$$

Therefore, $f[x_3(t)]$ is zero when $|t| < 2$ and when $|t| \rightarrow \infty$.

- (d)

$$f[x_4(t)] = \frac{1}{2} [x_4(t) + x_4(-t)] = \frac{1}{2} [e^{-t} + e^{-(t-4)}] = e^{-t} \cos(-1) = e^{-t} \cos(1)$$

Therefore, $f[x_4(t)]$ is zero only when $|t| \rightarrow \infty$.

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Figure S1.13

- 1.13.

$$y(t) = \int_{-\infty}^{\infty} x(\tau) d\tau = \int_{-\infty}^{\infty} (A(\tau + 2) - B(\tau - 2)) d\tau = \begin{cases} 0, & t < -2 \\ 2, & -2 \leq t \leq 2 \\ 0, & t > 2 \end{cases}$$

Therefore,

$$E_{\text{avg}} = \int_{-\infty}^{\infty} y(t) dt = 4$$

- 1.14. The signal $x(t)$ and its derivative $y(t)$ are shown in Figure S1.14.



Figure S1.14

Therefore,

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

This implies that $A_1 = 2$, $A_2 = 0$, $A_3 = -2$, and $A_4 = 1$.

- 1.15. (a) The signal $x_2(t)$, which is the input to S_2 , is the same as $x_1(t)$. Therefore,

$$\begin{aligned} y(t) &= x_2(t-2) = \frac{1}{2} x_1(t-2) \\ &= \frac{1}{2} [x_1(t-2) + \frac{1}{2} x_1(t-4)] \\ &= \frac{1}{2} [x_1(t-2) + \frac{1}{2} (2x_1(t-2) + 4x_1(t-4))] \\ &= \frac{1}{2} [x_1(t-2) + 2x_1(t-2) + 2x_1(t-4)] \\ &= \frac{3}{2} x_1(t-2) + x_1(t-4) \end{aligned}$$

The input-output relationship for S is

$$y(t) = 2x(t-2) + 2x(t-4) + 2x(t-6)$$

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Signal And Systems Solution Manual

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Signal And Systems Solution Manual:

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