

Chapter 1 Answers

1.1. Converting from polar to Cartesian coordinates

$$\begin{aligned} z = 1 + j\sqrt{3} &= 2 \angle \frac{\pi}{3} & \frac{1}{z} &= \frac{1}{2} \angle -\frac{\pi}{3} \\ z^2 &= 2 \angle \frac{2\pi}{3} & z^3 &= 2 \angle \pi = -2 \\ z^4 &= 2 \angle \frac{4\pi}{3} & z^5 &= 2 \angle \frac{5\pi}{3} \\ z^6 &= 2 \angle 2\pi = 2 \end{aligned}$$

1.2. Converting from Cartesian to polar coordinates

$$\begin{aligned} z = 1 + j\sqrt{3} &= 2 \angle \frac{\pi}{3} & -z &= 2 \angle \frac{4\pi}{3} \\ \frac{1}{z} &= \frac{1}{2} \angle -\frac{\pi}{3} & \frac{1}{-z} &= \frac{1}{2} \angle \frac{2\pi}{3} \\ z^2 &= 2 \angle \frac{2\pi}{3} & z^3 &= 2 \angle \pi = -2 \\ z^4 &= 2 \angle \frac{4\pi}{3} & z^5 &= 2 \angle \frac{5\pi}{3} \\ z^6 &= 2 \angle 2\pi = 2 \end{aligned}$$

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

$$\begin{aligned} (b) \quad x(t) &= e^{j\pi t} \delta(t), \quad |x(t)| = 1. \quad \text{Therefore, } E_{\text{avg}} = \int_{-\infty}^{\infty} |x(t)|^2 dt = \int_{-\infty}^{\infty} \delta(t) dt = \infty. \quad E_{\text{avg}} = \infty \\ E_{\text{avg}} &= \lim_{T \rightarrow \infty} \frac{1}{2T} \int_{-T}^T |x(t)|^2 dt = \lim_{T \rightarrow \infty} \frac{1}{2T} \int_{-T}^T \delta(t) dt = \lim_{T \rightarrow \infty} \frac{1}{2T} = 0 \end{aligned}$$

$$(c) \quad x(t) = \cos(2t). \quad \text{Therefore, } E_{\text{avg}} = \lim_{T \rightarrow \infty} \frac{1}{2T} \int_{-T}^T \cos^2(2t) dt = \lim_{T \rightarrow \infty} \frac{1}{2T} \int_{-T}^T \frac{1 + \cos(4t)}{2} dt = \frac{1}{2}$$

$$\begin{aligned} E_{\text{avg}} &= \lim_{T \rightarrow \infty} \frac{1}{2T} \int_{-T}^T \cos^2(2t) dt = \lim_{T \rightarrow \infty} \frac{1}{2T} \int_{-T}^T \left(\frac{1 + \cos(4t)}{2} \right) dt = \frac{1}{2} \\ (d) \quad x(t) &= (t^2)^2 \delta(t), \quad |x(t)|^2 = [(t^2)^2 \delta(t)]^2. \quad \text{Therefore, } E_{\text{avg}} = \lim_{T \rightarrow \infty} \frac{1}{2T} \int_{-T}^T (t^2)^4 \delta(t) dt = \lim_{T \rightarrow \infty} \frac{1}{2T} \int_{-T}^T t^8 \delta(t) dt = \lim_{T \rightarrow \infty} \frac{1}{2T} = 0 \end{aligned}$$

$$(e) \quad x(t) = e^{j\pi t} \delta(t), \quad |x(t)|^2 = 1. \quad \text{Therefore, } E_{\text{avg}} = \lim_{T \rightarrow \infty} \frac{1}{2T} \int_{-T}^T |x(t)|^2 dt = \lim_{T \rightarrow \infty} \frac{1}{2T} \int_{-T}^T \delta(t) dt = \lim_{T \rightarrow \infty} \frac{1}{2T} = 0$$

$$E_{\text{avg}} = \lim_{T \rightarrow \infty} \frac{1}{2T} \int_{-T}^T |x(t)|^2 dt = \lim_{T \rightarrow \infty} \frac{1}{2T} \int_{-T}^T \delta(t) dt = \lim_{T \rightarrow \infty} \frac{1}{2T} = 0$$

$$(f) \quad x(t) = \cos(2t). \quad \text{Therefore, } E_{\text{avg}} = \lim_{T \rightarrow \infty} \frac{1}{2T} \int_{-T}^T \cos^2(2t) dt = \lim_{T \rightarrow \infty} \frac{1}{2T} \int_{-T}^T \frac{1 + \cos(4t)}{2} dt = \frac{1}{2}$$

$$E_{\text{avg}} = \lim_{T \rightarrow \infty} \frac{1}{2T} \int_{-T}^T \cos^2(2t) dt = \lim_{T \rightarrow \infty} \frac{1}{2T} \int_{-T}^T \left(\frac{1 + \cos(4t)}{2} \right) dt = \frac{1}{2}$$

- 1.4. (a) The signal $x(t)$ is shifted by 2 to the right. The shifted signal will be zero for $t < 1$ and $t > 3$.
 (b) The signal $x(t)$ is shifted by 4 to the left. The shifted signal will be zero for $t < -3$ and $t > -1$.

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1.5. (a) $\Re\{x_1(t)\} = -2 + 2e^{j\pi t} \cos(2t + \pi)$

$$(b) \quad \Re\{x_2(t)\} = \sqrt{2} \cos(3t) \cos(4t + \pi) = \cos(2t) = e^{j\pi t} \cos(2t + \pi)$$

$$(c) \quad \Re\{x_3(t)\} = e^{j\pi t} \cos(2t + \pi) = e^{j\pi t} \cos(2t + \pi)$$

$$(d) \quad \Re\{x_4(t)\} = -e^{j\pi t} \cos(2t) = e^{j\pi t} \cos(2t + \pi)$$

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

$$x_1(t) = e^{j\pi t} = e^{j2\pi(1/2)t}$$

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

(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.

$$x_3(t) = e^{j\pi t} = e^{j2\pi(1/2)t}$$

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

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

(e) $x_5(t)$ is not periodic. $x_5(t)$ is a complex exponential with $\omega_0 = 1/3$. We cannot find any integer m such that $m\omega_0$ is also an integer. Therefore, $x_5(t)$ is not periodic.

1.7.

$$x(t) = 2\cos(4t + 1) = \cos(4t + 1)$$

Period of first term in RHS = $\frac{2\pi}{4} = \frac{\pi}{2}$

Period of second term in RHS = $\frac{2\pi}{4} = \frac{\pi}{2}$

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

1.8.

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

Period of the first term in the RHS = 1

Period of the second term in the RHS = $\text{LCM}(\frac{2}{1}, \frac{2}{2}) = \text{LCM}(\frac{2}{1}, 1) = 2$ when $m = 1$

Period of the third term in the RHS = $\text{LCM}(\frac{2}{1}, \frac{2}{2}) = \text{LCM}(\frac{2}{1}, 1) = 2$ 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.

The signal $x(t)$ is as shown in Figure 1.13. $x(t)$ can be obtained by flipping $x(t)$ and then shifting the flipped signal by 2 to the right. Therefore, $x(t) = x(-t + 2)$. This implies that $2T = -1$ and $\omega_0 = -2$.

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(a) The signal $x(t)$ is flipped. The flipped signal will be zero for $t < -4$ and $t > 2$.

(b) 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 $t > 4$.

(c) 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 $t > 0$.

1.10.

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

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

(c) $x(t)$ is obtained by linearly compressing $x(t)$ by a factor of 2. Therefore, $x(t)$ will be zero for $t < 1$.

(d) $x(t)$ is obtained by linearly stretching $x(t)$ by a factor of 2. Therefore, $x(t)$ will be zero for $t < 2$.

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 1.14.



Figure 1.14

Therefore, it is periodic with a fundamental period of 1.

1.12.

$$x(t) = x_1(t) + x_2(t) = \frac{1}{2} \cos(2t) + \frac{1}{2} \cos(4t) = \frac{1}{2} \cos(2t) + \frac{1}{2} \cos(4t) = \frac{1}{2} \cos(2t) + \frac{1}{2} \cos(4t)$$

Therefore, $x(t)$ is zero for $t > 2$.

(b) Since $x_1(t)$ is an odd signal, $x_2(t)$ is even for all values of t .

1.13.

$$x(t) = \frac{1}{2} \cos(2t) + \frac{1}{2} \cos(4t) = \frac{1}{2} \cos(2t) + \frac{1}{2} \cos(4t) = \frac{1}{2} \cos(2t) + \frac{1}{2} \cos(4t)$$

Therefore, $x(t)$ is zero when $t < 2$ and when $t > 4$.

1.14.

$$x(t) = \frac{1}{2} \cos(2t) + \frac{1}{2} \cos(4t) = \frac{1}{2} \cos(2t) + \frac{1}{2} \cos(4t) = \frac{1}{2} \cos(2t) + \frac{1}{2} \cos(4t)$$

Therefore, $x(t)$ is zero only when $t > 4$.

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Signal And Systems Solution Manual

R. K. Rao Yarlagadda



Signal And Systems Solution Manual:

Solutions Manual Naveed Akhtar Malik, Syed Hamid Nawab, 1983 **Solutions Manual for Signals and Systems**
Primer with Matlab Alexander D Poularikas, Poularikas Alexander D Staff, 2007-01-01 Signals and Linear Systems
Robert A. Gabel, Richard A. Roberts, 1987-03 **Solutions Manual for Signals and Systems** Michael D. Adams, 2022
Analog and Digital Signals and Systems R. K. Rao Yarlagadda, 2010-08-05 This book presents a systematic comprehensive treatment of analog and discrete signal analysis and synthesis and an introduction to analog communication theory This evolved from my 40 years of teaching at Oklahoma State University OSU It is based on three courses Signal Analysis a second semester junior level course Active Filters a first semester senior level course and Digital signal processing a second semester senior level course I have taught these courses a number of times using this material along with existing texts The references for the books and journals over 160 references are listed in the bibliography section At the undergraduate level most signal analysis courses do not require probability theory Only a very small portion of this topic is included here I emphasized the basics in the book with simple mathematics and the sophistication is minimal Theorem proof type of material is not emphasized The book uses the following model 1 Learn basics 2 Check the work using bench marks 3 Use software to see if the results are accurate The book provides detailed examples over 400 with applications A three number system is used consisting of chapter number section number example or problem number thus allowing the student to quickly identify the related material in the appropriate section of the book The book includes well over 400 homework problems Problem numbers are identified using the above three number system Signals and Systems Oktay Alkin, 2016-04-19 Drawing on the author's 25 years of teaching experience Signals and Systems A MATLAB Integrated Approach presents a novel and comprehensive approach to understanding signals and systems theory Many texts use MATLAB as a computational tool but Alkin's text employs MATLAB both computationally and pedagogically to provide interactive visual reinforcement **A Practical Approach to Signals and Systems** D. Sundararajan, 2009-03-04 Concisely covers all the important concepts in an easy to understand way Gaining a strong sense of signals and systems fundamentals is key for general proficiency in any electronic engineering discipline and critical for specialists in signal processing communication and control At the same time there is a pressing need to gain mastery of these concepts quickly and in a manner that will be immediately applicable in the real world Simultaneous study of both continuous and discrete signals and systems presents a much easier path to understanding signals and systems analysis In A Practical Approach to Signals and Systems Sundararajan details the discrete version first followed by the corresponding continuous version for each topic as discrete signals and systems are more often used in practice and their concepts are relatively easier to understand In addition to examples of typical applications of analysis methods the author gives comprehensive coverage of transform methods emphasizing practical methods of analysis and physical interpretations of concepts Gives equal emphasis to theory and practice Presents methods that can be immediately applied

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Solutions Manual Naveed Malik, 1983 *Continuous-Time Signals and Systems* Oktay Alkin, 2025-03-24 Drawing on author s 30 years of teaching experience Continuous Time Signals and Systems A MATLAB Integrated Approach represents a novel and comprehensive approach to understanding signals and systems theory Many textbooks use MATLAB as a computational tool but Alkin s text employs MATLAB both computationally and pedagogically to provide interactive visual reinforcement of fundamental concepts important in the study of continuous time signals and systems In addition to 210 traditional end of chapter problems and 168 solved examples the book includes hands on MATLAB modules consisting of 77 MATLAB based homework problems and projects coordinated with the traditional end of chapter

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Solutions Manual for Signal Analysis in Linear Systems Ronald C. Houts, Oktay Alkin, 1995-06

Transforms in Signals and Systems Solutions Manual Kraniuskas, 1993-12 *Solutions Manual to Accompany Elements of Signals and Systems* Alexander D. Poularikas, Samuel Seely, 1988

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