1.31. (a) We have

$$e^{i\theta} = \cos\theta + i\sin\theta. \tag{31.31-1}$$

and

$$e^{-i\theta} = \cos\theta - i\sin\theta. \tag{31.31-2}$$

Subtracting eqs. (31.31-2) and (31.31-1) we get

$$\sin\theta = \frac{1}{2i}\left(e^{i\theta} + e^{-i\theta}\right).$$

(b) Subtracting eq. (31.31-2) from (31.31-1) we get

$$\sin\theta = \frac{1}{2i}\left(e^{i\theta} - e^{-i\theta}\right).$$

(c) We now have $e^{i(\theta+\phi)} = e^{i\theta}e^{i\phi}$. Therefore,

$$\begin{aligned}\cos(\theta+\phi) + i\sin(\theta+\phi) &= (\cos\theta\cos\phi - \sin\theta\sin\phi)\\ &\quad + i(\sin\theta\cos\phi + \cos\theta\sin\phi)\end{aligned} \tag{31.31-3}$$

Putting $\theta = \phi$ in eq. (31.31-3), we get

$$\cos 2\theta = \cos^2\theta - \sin^2\theta.$$

Putting $\theta = -\phi$ in eq. (31.31-3), we get

$$1 = \cos^2\theta + \sin^2\theta.$$

Adding the two above equations and simplifying,

$$\cos^2\theta = \frac{1}{2}(1 + \cos 2\theta).$$

(d) Equating the real parts in eq. (31.31-3) with arguments $(\theta+\phi)$ and $(\theta-\phi)$ we get

$$\cos(\theta+\phi) = \cos\theta\cos\phi - \sin\theta\sin\phi$$

and

$$\cos(\theta-\phi) = \cos\theta\cos\phi + \sin\theta\sin\phi.$$

Subtracting the two above equations, we obtain

$$\sin\theta\sin\phi = \frac{1}{2}[\cos(\theta-\phi) - \cos(\theta+\phi)].$$

(e) Equating imaginary parts in eq. (31.31-3), we get

$$\sin(\theta+\phi) = \sin\theta\cos\phi + \cos\theta\sin\phi.$$

(a) Since $r_1 > 0, r_2 > 0$ and $-1 \le \cos(\theta_1 - \theta_2) \le 1$,

$$\begin{aligned}(|z_1| - |z_2|)^2 &= r_1^2 + r_2^2 - 2r_1r_2\\ &\ge r_1^2 + r_2^2 + 2r_1r_2\cos(\theta_1 - \theta_2)\\ &= |z_1 + z_2|^2\end{aligned}$$

and

$$(|z_1| + |z_2|)^2 = r_1^2 + r_2^2 + 2r_1r_2 \ge |z_1 + z_2|^2.$$

1.34. (a) For $a = 1$, it is fairly obvious that

$$\sum_{n=0}^{N-1} a^n = N.$$

For $a \neq 1$, we may write

$$(1-a)\sum_{n=0}^{N-1} a^n = \sum_{n=0}^{N-1} a^n - \sum_{n=0}^{N-1} a^{n+1} = 1 - a^N.$$

Therefore,

$$\sum_{n=0}^{N-1} a^n = \frac{1-a^N}{1-a}.$$

(b) For $|a| < 1$,

$$\lim_{N\to\infty} a^N = 0.$$

Therefore, from the result of the previous part,

$$\lim_{N\to\infty}\sum_{n=0}^{N-1} a^n = \sum_{n=0}^{\infty} a^n = \frac{1}{1-a}.$$

(c) Differentiating both sides of the result of part (b) wrt a, we get

$$\begin{aligned}\frac{d}{da}\left(\sum_{n=0}^{\infty} a^n\right) &= \frac{d}{da}\left(\frac{1}{1-a}\right)\\ \sum_{n=0}^{\infty} n a^{n-1} &= \frac{1}{(1-a)^2}\end{aligned}$$

(d) We may write

$$\sum_{n=0}^{\infty} n a^n = a\sum_{n=0}^{\infty} n a^{n-1} = \frac{a}{(1-a)^2} \text{ for } |a| < 1.$$

1.35. (a) The desired sum is

$$\sum_{n=0}^{N} e^{in\pi/2} = \frac{1 - e^{i(N+1)\pi/2}}{1 - e^{i\pi/2}} = 1 + j.$$

1.32. (a) $xx^* = re^{i\theta}re^{-i\theta} = r^2$

(b) $x/x^* = re^{i\theta}/re^{-i\theta} = e^{2i\theta}$

(c) $x + x^* = x + jy + x - jy = 2x = 2\mathrm{Re}\{x\}$

(d) $x - x^* = x + jy - x + jy = 2jy = 2j\mathrm{Im}\{x\}$

(e) $|x_1 + x_2|^2 = (|x_1 + x_2|)^2 = (|x_1| - |x_2| + |x_1| + |x_2|)^2 = (|x_1| - |x_2|)^2 + 4|x_1||x_2| + (|x_1| + |x_2|)^2 \ge 4|x_1||x_2|$

(f) Consider $(ax_1, x_2)^*$. For $a > 0$,

$$(ax_1, x_2)^* = (ar_1r_2e^{i(\theta_1+\theta_2)})^* = ar_1r_2e^{-i(\theta_1+\theta_2)} = ax_1^*x_2.$$

For $a < 0$, $a = |a|e^{i\pi}$. Therefore,

$$(ax_1, x_2)^* = (|a|r_1r_2e^{i(\theta_1+\theta_2+\pi)})^* = |a|r_1r_2e^{-i(\theta_1+\theta_2)}e^{-i\pi} = ax_1^*x_2.$$

(g) For $|x_2| \neq 0$,

$$\left(\frac{x_1}{x_2}\right)^* = \frac{r_1}{r_2}e^{-i(\theta_1-\theta_2)} = \frac{r_1e^{-i\theta_1}}{r_2e^{-i\theta_2}} = \frac{x_1^*}{x_2^*}.$$

(h) From (c), we get

$$\mathrm{Re}\{x_1x_2^*\} = \frac{1}{2}\left[(x_1x_2^*) + (x_1x_2^*)^*\right]$$

Using (g) on this, we get

$$\mathrm{Re}\{x_1x_2^*\} = \frac{1}{2}\left[(x_1x_2^*) + (x_1^*x_2)\right] = \frac{1}{2}\left[x_1x_2^* + x_1^*x_2\right]$$

1.33. (a) $(x^n)^* = (r^ne^{in\theta})^* = r^ne^{-in\theta} = (x^*)^n$.

(b) Let $x_1 = x_1x_2^*$ and $x_2 = x_2^*x_1$. Then,

$$\begin{aligned}x_1 + x_2^* = x_2^* + x_1 &\Rightarrow x_1 + x_2^* = 2\mathrm{Re}\{x_1\} = 2\mathrm{Re}\{x_2^* + x_1\}\\ &\Rightarrow x_2^* = x_1 = 2\mathrm{Re}\{x_1\} = 2\mathrm{Re}\{x_2^*\}\end{aligned}$$

(c) $|x| = |xe^{i\pi}| = x = |xe^{-i\pi}| = |x^*|$

(d) $|x_1x_2| = |r_1r_2e^{i(\theta_1+\theta_2)}| = |r_1r_2| = |r_1||r_2| = |x_1||x_2|$

(e) Since $x = a + jb$, $|x| = \sqrt{a^2 + b^2}$. By the triangle inequality,

$$\mathrm{Re}\{x\} = a \le \sqrt{a^2 + b^2} = |x|$$

and

$$\mathrm{Im}\{x\} = b \le \sqrt{a^2 + b^2} = |x|.$$

(f) $|x_1x_2^* + x_2^*x_1| = |2\mathrm{Re}\{x_1x_2^*\}| = |2r_1r_2\cos(\theta_1 - \theta_2)| \le 2r_1r_2 = 2|x_1x_2|$.

(b) The desired sum is

$$\sum_{n=0}^{N} e^{jn\pi/2} = e^{-jN\pi/4}\sum_{n=0}^{N} e^{jn\pi/2} = -(1 + j).$$

(c) The desired sum is

$$\sum_{n=0}^{N}(1/2)^n e^{jn\pi/2} = \frac{1}{1 - (1/2)e^{j\pi/2}} = \frac{4}{5} + j\frac{2}{5}.$$

(d) The desired sum is

$$\sum_{n=0}^{N}(1/2)^n e^{jn\pi/2} = (1/2)^N e^{jN\pi/2}\sum_{n=0}^{N}(1/2)^n e^{jn\pi/2} = -\frac{4}{5}\left[\frac{4}{5} + j\frac{2}{5}\right].$$

(e) The desired sum is

$$\sum_{n=0}^{N}\cos(n\pi/2) = \frac{1}{2}\sum_{n=0}^{N} e^{jn\pi/2} + \frac{1}{2}\sum_{n=0}^{N} e^{-jn\pi/2} = \frac{1}{2}(1 + j) + \frac{1}{2}(1 - j) = 1.$$

(f) The desired sum is

$$\begin{aligned}\sum_{n=0}^{N}(1/2)^n\cos(n\pi/2) &= \frac{1}{2}\sum_{n=0}^{N}(1/2)^n e^{jn\pi/2} + \frac{1}{2}\sum_{n=0}^{N}(1/2)^n e^{-jn\pi/2}\\ &= \frac{4}{5} + j\frac{2}{10} + \frac{4}{5} - j\frac{2}{10} = \frac{8}{5}\end{aligned}$$

1.36. (a) The desired integral is

$$\int_0^\infty e^{-\alpha t}dt = \frac{e^{-\alpha t}}{-\alpha}\Big|_0^\infty = \frac{1}{\alpha}.$$

(b) The desired integral is

$$\int_0^\infty te^{-\alpha t}dt = \frac{te^{-\alpha t}}{-\alpha}\Big|_0^\infty - \int_0^\infty \frac{e^{-\alpha t}}{-\alpha}dt = \frac{1}{\alpha^2}.$$

(c) The desired integral is

$$\int_0^\infty t^2e^{-\alpha t}dt = \frac{t^2e^{-\alpha t}}{-\alpha}\Big|_0^\infty - \int_0^\infty \frac{te^{-\alpha t}}{-\alpha}dt = \frac{2}{\alpha^3}.$$

(d) The desired integral is

$$\int_0^\infty e^{-(1+j)t}dt = \frac{e^{-(1+j)t}}{-(1+j)}\Big|_0^\infty = \frac{1}{1+j} = \frac{1-j}{2}.$$

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Table of Contents Exercises Signals And Systems Oppenheim Solutions

1. Understanding the eBook Exercises Signals And Systems Oppenheim Solutions
    - The Rise of Digital Reading Exercises Signals And Systems Oppenheim Solutions
    - Advantages of eBooks Over Traditional Books
2. Identifying Exercises Signals And Systems Oppenheim Solutions
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Exercises Signals And Systems Oppenheim Solutions
    - User-Friendly Interface
4. Exploring eBook Recommendations from Exercises Signals And Systems Oppenheim Solutions
    - Personalized Recommendations
    - Exercises Signals And Systems Oppenheim Solutions User Reviews and Ratings

- Exercises Signals And Systems Oppenheim Solutions and Bestseller Lists
5. Accessing Exercises Signals And Systems Oppenheim Solutions Free and Paid eBooks
   - Exercises Signals And Systems Oppenheim Solutions Public Domain eBooks
   - Exercises Signals And Systems Oppenheim Solutions eBook Subscription Services
   - Exercises Signals And Systems Oppenheim Solutions Budget-Friendly Options
6. Navigating Exercises Signals And Systems Oppenheim Solutions eBook Formats
   - ePub, PDF, MOBI, and More
   - Exercises Signals And Systems Oppenheim Solutions Compatibility with Devices
   - Exercises Signals And Systems Oppenheim Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
   - Adjustable Fonts and Text Sizes of Exercises Signals And Systems Oppenheim Solutions
   - Highlighting and Note-Taking Exercises Signals And Systems Oppenheim Solutions
   - Interactive Elements Exercises Signals And Systems Oppenheim Solutions
8. Staying Engaged with Exercises Signals And Systems Oppenheim Solutions
   - Joining Online Reading Communities
   - Participating in Virtual Book Clubs
   - Following Authors and Publishers Exercises Signals And Systems Oppenheim Solutions
9. Balancing eBooks and Physical Books Exercises Signals And Systems Oppenheim Solutions
   - Benefits of a Digital Library
   - Creating a Diverse Reading Collection Exercises Signals And Systems Oppenheim Solutions
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Exercises Signals And Systems Oppenheim Solutions
    - Setting Reading Goals Exercises Signals And Systems Oppenheim Solutions
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Exercises Signals And Systems Oppenheim Solutions
    - Fact-Checking eBook Content of Exercises Signals And Systems Oppenheim Solutions
    - Distinguishing Credible Sources

13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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