

- 1.23. We want to find the smallest N_0 such that $m(2\pi/N)N_0 = 2\pi k$ or $N_0 = 2\pi k/m$, where k is an integer. If N_0 has to be an integer, then N must be a multiple of m/k and m/k must be an integer. This implies that m/k is a divisor of both m and N . Also, if we want the smallest possible N_0 , then m/k should be the GCD of m and N . Therefore, $N_0 = N/\gcd(m, N)$.

- 1.24. (a) If $x(t)$ is periodic $x(t+NT) = x(t)$, where $\omega_0 = 2\pi/N$. This implies that

$$\frac{2\pi}{NT} NT = 2\pi k \quad \Rightarrow \quad \frac{T}{N} = \frac{k}{N} = \text{a rational number.}$$

- (b) If $T/N = p/q$ then $x(t) = x(t + p/qT)$. The fundamental period is $q/\gcd(p, q)$ and the fundamental frequency is

$$\frac{2\pi}{q/\gcd(p, q)} = \frac{2\pi p}{p} \gcd(p, q) = \frac{2\pi}{p} \gcd(p, q) = \frac{2\pi q}{p} \gcd(p, q).$$

- (c) $p/\gcd(p, q)$ periods of $x(t)$ are needed.

- 1.27. (a) From the definition of $\delta_{xy}(t)$, we have

$$\begin{aligned} \delta_{xy}(t) &= \int_{-\infty}^{\infty} x(\tau) \delta(t-\tau) d\tau \\ &= \int_{-\infty}^{\infty} x(\tau) \delta(t-\tau) d\tau \\ &= \delta_{yx}(t). \end{aligned}$$

- (b) Since from part (a) that $\delta_{xy}(t) = \delta_{yx}(t)$. This implies that $\delta_{xy}(t)$ is even. Therefore, the odd part of $\delta_{xy}(t)$ is zero.

- (c) Here, $\delta_{xy}(t) = \delta_{yx}(t - T)$ and $\delta_{yx}(t) = \delta_{xy}(t)$.

- 1.28. (a) We know that $\delta_{xx}(t) = \delta_{xx}(t)$. Therefore,

$$\lim_{T \rightarrow 0} \delta_{xx}(T) = \lim_{T \rightarrow 0} \frac{1}{T} \delta_{xx}(T).$$

This implies that

$$\delta(t) = \frac{1}{T} \delta_{xx}(T).$$

- (b) The plots are as shown in Figure S1.28.

- 1.29. We have

$$\lim_{T \rightarrow 0} \omega_{xx}(T)\delta(t) = \lim_{T \rightarrow 0} \omega_{xx}(T)\delta(t) = 0.$$

Also,

$$\lim_{T \rightarrow 0} \omega_{xx}(T)\delta_{xx}(T) = \frac{1}{T} \delta(t).$$

or

- 1.31. (a) $y(t) = 2x(t)$. Therefore, the system is time-invariant.

- (b) $y(t) = (2n - 1)x(t)$. This is not time-invariant because $y(t) \neq N_2 y(t - 1)$ or $N_2 y(t) = (2n - 1)x(t)$.

- (c) $y(t) = x(t)(1 + (-1)^t) = (1 + (-1)^{t-1}) = 2x(t)$. Therefore, the system is time-invariant.

- 1.32. (a) Consider two systems S_1 and S_2 connected in series. Assume that if $x_1(t)$ and $x_2(t)$ are the inputs to S_1 , then $y_1(t)$ and $y_2(t)$ are the outputs, respectively. Also, assume that if $y_1(t)$ and $y_2(t)$ are the inputs to S_2 , then $r_1(t)$ and $r_2(t)$ are the outputs, respectively. Since S_2 is linear, we may write

$$r_1(t) = ay_1(t) + bz_2(t) \quad \frac{d}{dt} r_1(t) = ay_1'(t) + bz_2'(t),$$

where a and b are constants. Since S_2 is also linear, we may write

$$r_2(t) = ay_2(t) + bz_1(t) \quad \frac{d}{dt} r_2(t) = ay_2'(t) + bz_1'(t).$$

We may therefore conclude that

$$ay_1'(t) + ay_2'(t) \stackrel{d}{=} \frac{d}{dt} (ay_1(t) + ay_2(t)) = \frac{d}{dt} r_1(t) + \frac{d}{dt} r_2(t).$$

Therefore, the series combination of S_1 and S_2 is linear.

Since S_1 is time-invariant, we may write

$$r_1(t - T_0) \stackrel{d}{=} \frac{d}{dt} r_1(t - T_0).$$

and

$$r_2(t - T_0) \stackrel{d}{=} \frac{d}{dt} r_2(t - T_0).$$

Therefore,

$$r_1(t - T_0) \stackrel{d}{=} \frac{d}{dt} r_1(t - T_0).$$

Therefore, the series combination of S_1 and S_2 is time-invariant.

- (b) False. Let $y(t) = x(t) + 1$ and $x(t) = y(t) - 1$. These correspond to two nonlinear systems. If these systems are connected in series, then $x(t) = x(t)$ which is a linear system.

- (c) Let us name the output of system 1 as $w(t)$ and the output of system 2 as $v(t)$. Then,

$$\begin{aligned} w(t) &= x(t) + 1 = w(t) + \frac{1}{2}w(t) + \frac{1}{2}w(t) + 1 \\ &= w(t) + \frac{1}{2}w(t) + 1 + \frac{1}{2}w(t) + 1 \end{aligned}$$

The overall system is linear and time-invariant.

- 1.33. (a) We have

$$x(t) \stackrel{d}{=} y(t).$$

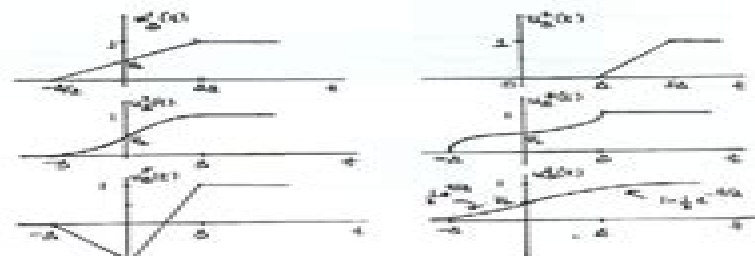


Figure S1.28

We have

$$y(t) = \int_{-\infty}^{\infty} x(\tau) \delta(t-\tau) d\tau = \int_{-\infty}^{\infty} x(\tau) \delta(t-\tau) d\tau.$$

Therefore,

$$y(t) = \begin{cases} x(t) & t < 0 \\ 0 & t > 0 \\ \text{undefined} & \text{for } t = 0 \end{cases} \quad \begin{cases} \delta(t) = x(t) = 0 \\ \delta(t) = x(t) = 0 \\ \delta(t) = x(t) = 0 \end{cases}$$

- 1.34. (a) If a system is additive, then

$$0 = x(t) + x(t) \rightarrow y(t) = y(t) + y(t) = 0.$$

Also, if a system is homogeneous, then

$$0 = 0x(t) \rightarrow y(t) = 0.$$

- (b) $y(t) = x^2(t)$ is not a system.

- (c) No. For example, consider $y(t) = \int_{-\infty}^{\infty} x(\tau) d\tau$ with $x(t) = x(t) - x(t - 1)$. Then $x(t) = 0$ for $t > 1$, but $y(t) = 1$ for $t > 1$.

or

Since S is time-invariant,

$$x(t - T) \stackrel{d}{=} y(t - T).$$

Now, if $x(t)$ is periodic with period T , $x(t) = x(t - T)$. Therefore, we may conclude that $y(t) = y(t - T)$. This implies that $y(t)$ is also periodic with period T . A similar argument may be made in discrete time.

(b)

- 1.35. (a) Assumption: If $x(t) = 0$ for $t < t_0$, then $y(t) = 0$ for $t < t_0$. To prove that: The system is causal.

Let us consider an arbitrary signal $x_1(t)$. Let us consider another signal $x_2(t)$ which is the same as $x_1(t)$ for $t < t_0$ but for $t > t_0$, $x_2(t) \neq x_1(t)$. Since the system is linear,

$$x_1(t) - x_2(t) \rightarrow y_1(t) - y_2(t).$$

Since $x_1(t) = x_2(t) = 0$ for $t < t_0$, by our assumption $y_1(t) = y_2(t) = 0$ for $t < t_0$. This implies that $y_1(t) = y_2(t)$ for $t < t_0$. In other words, the output is not affected by input values for $t < t_0$. Therefore, the system is causal.

Assumption: The system is causal. To prove that: If $x(t) = 0$ for $t < t_0$, then $y(t) = 0$ for $t < t_0$.

Let us assume that the signal $x(t) = 0$ for $t < t_0$. Then we may express $x(t)$ as $x(t) = x_1(t) - x_2(t)$, where $x_1(t) = x_2(t)$ for $t < t_0$. Since the system is linear, the output to $x(t)$ will be $y(t) = y_1(t) - y_2(t)$. Now, since the system is causal, $y_1(t) = y_2(t)$ for $t < t_0$ implies that $y(t) = 0$ for $t < t_0$. Therefore, $y(t) = 0$ for $t < t_0$.

- (b) Consider $y(t) = x(t)(t + 1)$. Now, $x(t) = 0$ for $t < t_0$ implies that $y(t) = 0$ for $t < t_0$. Since the system is nonlinear and non-causal.

- (c) Consider $y(t) = x(t) + 1$. This system is nonlinear and causal. This does not satisfy the condition of part (a).

- (d) Assumption: The system is invertible. To prove that: $y(t) = 0$ for all t only if $x(t) = 0$ for all t .

Consider

$$x(t) = 0 \rightarrow y(t)$$

Since the system is linear,

$$2x(t) = 0 \rightarrow 2y(t).$$

Since the input has not changed in the two above equations, we require that $y(t) = 2y(t)$. This implies that $y(t) = 0$. Since we have assumed that the system is invertible, only one input could have led to this particular output. That input must be $x(t) = 0$.

Assumption: $y(t) = 0$ for all t if $x(t) = 0$ for all t . To prove that: The system is invertible.

Suppose that

$$x_1(t) \rightarrow y(t)$$

and

$$x_2(t) \rightarrow y(t).$$

or

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Table of Contents Solution Manual To Signals Systems Oppenheim Willsky Nawab

1. Understanding the eBook Solution Manual To Signals Systems Oppenheim Willsky Nawab
 - The Rise of Digital Reading Solution Manual To Signals Systems Oppenheim Willsky Nawab
 - Advantages of eBooks Over Traditional Books
2. Identifying Solution Manual To Signals Systems Oppenheim Willsky Nawab
 - 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 Solution Manual To Signals Systems Oppenheim Willsky Nawab
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solution Manual To Signals Systems Oppenheim Willsky Nawab
 - Personalized Recommendations
 - Solution Manual To Signals Systems Oppenheim Willsky Nawab User Reviews and Ratings
 - Solution Manual To Signals Systems Oppenheim Willsky Nawab and Bestseller Lists
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 - Solution Manual To Signals Systems Oppenheim Willsky Nawab Compatibility with Devices
 - Solution Manual To Signals Systems Oppenheim Willsky Nawab Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Solution Manual To Signals Systems Oppenheim Willsky Nawab
 - Highlighting and Note-Taking Solution Manual To Signals Systems Oppenheim Willsky Nawab
 - Interactive Elements Solution Manual To Signals Systems Oppenheim Willsky Nawab
- 8. Staying Engaged with Solution Manual To Signals Systems Oppenheim Willsky Nawab
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solution Manual To Signals Systems Oppenheim Willsky Nawab
- 9. Balancing eBooks and Physical Books Solution Manual To Signals Systems Oppenheim Willsky Nawab
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solution Manual To Signals Systems Oppenheim Willsky Nawab
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Solution Manual To Signals Systems Oppenheim Willsky Nawab
 - Setting Reading Goals Solution Manual To Signals Systems Oppenheim Willsky Nawab
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Solution Manual To Signals Systems Oppenheim Willsky Nawab
 - Fact-Checking eBook Content of Solution Manual To Signals Systems Oppenheim Willsky Nawab
 - 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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