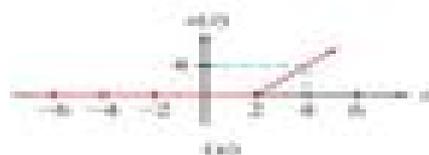


**Problem 1.8** **10**

$$s(t) = \begin{cases} 0 & \text{for } t \leq 2 \\ (2t - 4) & \text{for } t \geq 2. \end{cases}$$

plot  $s(t)$ ,  $s(t + 1)$ ,  $s\left(\frac{t+1}{2}\right)$ , and  $s\left[-\frac{t+1}{2}\right]$ .

**Solution:**



(a)  $s(t) = 2(t - 2) \quad s(t - 2) = 2(t - 2)$

(b)

$$\begin{aligned} s(t + 1) &= 2(t + 1) - 2 = 2(t - 1) \\ &= 2(t - 1) \quad s(t - 1) = 2(t - 1) \end{aligned}$$

(c)  $s\left(\frac{t+1}{2}\right)$  left by 1.

(d)

$$\begin{aligned} s\left(\frac{t+1}{2}\right) &= 2\left(\frac{t+1}{2} - 2\right) = \left(\frac{t+1}{2} - 2\right) \\ &= (t - 3) \quad s\left(\frac{t}{2} - 1.5\right) \end{aligned}$$

slope is 1, instead of 2, and  $s\left(\frac{t}{2} - 1.5\right)$  is zero for  $t < 3$ .

(e)

$$\begin{aligned} s\left(-\frac{t+1}{2}\right) &= 2\left(-\left(\frac{t+1}{2}\right) - 2\right) = \left(-\left(\frac{t+1}{2}\right) - 2\right) \\ &= (-t - 5) \quad s\left(-\frac{t}{2} - 2.5\right) \end{aligned}$$

slope is  $-1$  and  $s\left(-\frac{t}{2} - 2.5\right)$  is zero for  $t > -5$ .

# Engineering Signals And Systems Ulaby Solutions

**Huangqi Zhang**



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## **Table of Contents Engineering Signals And Systems Ulaby Solutions**

1. Understanding the eBook Engineering Signals And Systems Ulaby Solutions
  - The Rise of Digital Reading Engineering Signals And Systems Ulaby Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Signals And Systems Ulaby 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 Engineering Signals And Systems Ulaby Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Signals And Systems Ulaby Solutions
  - Personalized Recommendations
  - Engineering Signals And Systems Ulaby Solutions User Reviews and Ratings
  - Engineering Signals And Systems Ulaby Solutions and Bestseller Lists
5. Accessing Engineering Signals And Systems Ulaby Solutions Free and Paid eBooks
  - Engineering Signals And Systems Ulaby Solutions Public Domain eBooks
  - Engineering Signals And Systems Ulaby Solutions eBook Subscription Services
  - Engineering Signals And Systems Ulaby Solutions Budget-Friendly Options
6. Navigating Engineering Signals And Systems Ulaby Solutions eBook Formats
  - ePub, PDF, MOBI, and More
  - Engineering Signals And Systems Ulaby Solutions Compatibility with Devices
  - Engineering Signals And Systems Ulaby Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Engineering Signals And Systems Ulaby Solutions
  - Highlighting and Note-Taking Engineering Signals And Systems Ulaby Solutions
  - Interactive Elements Engineering Signals And Systems Ulaby Solutions

8. Staying Engaged with Engineering Signals And Systems Ulaby Solutions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Engineering Signals And Systems Ulaby Solutions
9. Balancing eBooks and Physical Books Engineering Signals And Systems Ulaby Solutions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Engineering Signals And Systems Ulaby Solutions
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Engineering Signals And Systems Ulaby Solutions
  - Setting Reading Goals Engineering Signals And Systems Ulaby Solutions
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Engineering Signals And Systems Ulaby Solutions
  - Fact-Checking eBook Content of Engineering Signals And Systems Ulaby Solutions
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
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