

## 3

## Simple Resistive Circuits

## Assessment Problems

AP 3.1



Start from the right hand side of the circuit and make series and parallel combinations of the resistors until one equivalent resistor remains. Begin by combining the  $6\Omega$  resistor and the  $10\Omega$  resistor in series:

$$6\Omega + 10\Omega = 16\Omega$$

Now combine this  $16\Omega$  resistor in parallel with the  $64\Omega$  resistor:

$$16\Omega \parallel 64\Omega = \frac{(16)(64)}{16 + 64} = \frac{1024}{80} = 12.8\Omega$$

This equivalent  $12.8\Omega$  resistor is in series with the  $7.2\Omega$  resistor:

$$12.8\Omega + 7.2\Omega = 20\Omega$$

Finally, this equivalent  $20\Omega$  resistor is in parallel with the  $30\Omega$  resistor:

$$20\Omega \parallel 30\Omega = \frac{(20)(30)}{20 + 30} = \frac{600}{50} = 12\Omega$$

Thus, the simplified circuit is as shown:



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Sadiku**



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## **Table of Contents Electric Circuits 9th Edition Nilsson Solution Manual Scribd**

1. Understanding the eBook Electric Circuits 9th Edition Nilsson Solution Manual Scribd
  - The Rise of Digital Reading Electric Circuits 9th Edition Nilsson Solution Manual Scribd
  - Advantages of eBooks Over Traditional Books
2. Identifying Electric Circuits 9th Edition Nilsson Solution Manual Scribd
  - 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 Electric Circuits 9th Edition Nilsson Solution Manual Scribd
  - User-Friendly Interface
4. Exploring eBook Recommendations from Electric Circuits 9th Edition Nilsson Solution Manual Scribd
  - Personalized Recommendations
  - Electric Circuits 9th Edition Nilsson Solution Manual Scribd User Reviews and Ratings
  - Electric Circuits 9th Edition Nilsson Solution Manual Scribd and Bestseller Lists
5. Accessing Electric Circuits 9th Edition Nilsson Solution Manual Scribd Free and Paid eBooks
  - Electric Circuits 9th Edition Nilsson Solution Manual Scribd Public Domain eBooks
  - Electric Circuits 9th Edition Nilsson Solution Manual Scribd eBook Subscription Services
  - Electric Circuits 9th Edition Nilsson Solution Manual Scribd Budget-Friendly Options
6. Navigating Electric Circuits 9th Edition Nilsson Solution Manual Scribd eBook Formats
  - ePub, PDF, MOBI, and More
  - Electric Circuits 9th Edition Nilsson Solution Manual Scribd Compatibility with Devices
  - Electric Circuits 9th Edition Nilsson Solution Manual Scribd Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Electric Circuits 9th Edition Nilsson Solution Manual Scribd
  - Highlighting and Note-Taking Electric Circuits 9th Edition Nilsson Solution Manual Scribd
  - Interactive Elements Electric Circuits 9th Edition Nilsson Solution Manual Scribd

8. Staying Engaged with Electric Circuits 9th Edition Nilsson Solution Manual Scribd
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Electric Circuits 9th Edition Nilsson Solution Manual Scribd
9. Balancing eBooks and Physical Books Electric Circuits 9th Edition Nilsson Solution Manual Scribd
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Electric Circuits 9th Edition Nilsson Solution Manual Scribd
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Electric Circuits 9th Edition Nilsson Solution Manual Scribd
  - Setting Reading Goals Electric Circuits 9th Edition Nilsson Solution Manual Scribd
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Electric Circuits 9th Edition Nilsson Solution Manual Scribd
  - Fact-Checking eBook Content of Electric Circuits 9th Edition Nilsson Solution Manual Scribd
  - 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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