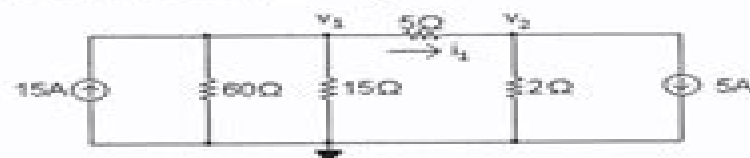


# Techniques of Circuit Analysis

## Assessment Problems

AP 4.1 [a] Redraw the circuit, labeling the reference node and the two node voltages:



The two node voltage equations are

$$-15 + \frac{v_1}{60} + \frac{v_1}{15} + \frac{v_1 - v_2}{5} = 0$$

$$5 + \frac{v_2}{2} + \frac{v_2 - v_1}{5} = 0$$

Place these equations in standard form:

$$v_1 \left( \frac{1}{60} + \frac{1}{15} + \frac{1}{5} \right) + v_2 \left( -\frac{1}{5} \right) = 15$$

$$v_1 \left( -\frac{1}{5} \right) + v_2 \left( \frac{1}{2} + \frac{1}{5} \right) = -5$$

Solving,  $v_1 = 60$  V and  $v_2 = 10$  V;

Therefore,  $i_1 = (v_1 - v_2)/5 = 10$  A

[b]  $p_{15A} = -(15 \text{ A})v_1 = -(15 \text{ A})(60 \text{ V}) = -900 \text{ W} = 900 \text{ W}(\text{delivered})$

[c]  $p_{5A} = (5 \text{ A})v_2 = (5 \text{ A})(10 \text{ V}) = 50 \text{ W} = -50 \text{ W}(\text{delivered})$

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**Rose Army**



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### **Table of Contents Electrical Circuit 1 Nilsson Manual Solution 8th**

1. Understanding the eBook Electrical Circuit 1 Nilsson Manual Solution 8th
  - The Rise of Digital Reading Electrical Circuit 1 Nilsson Manual Solution 8th
  - Advantages of eBooks Over Traditional Books
2. Identifying Electrical Circuit 1 Nilsson Manual Solution 8th
  - 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 Electrical Circuit 1 Nilsson Manual Solution 8th
  - User-Friendly Interface
4. Exploring eBook Recommendations from Electrical Circuit 1 Nilsson Manual Solution 8th
  - Personalized Recommendations
  - Electrical Circuit 1 Nilsson Manual Solution 8th User Reviews and Ratings
  - Electrical Circuit 1 Nilsson Manual Solution 8th and Bestseller Lists

5. Accessing Electrical Circuit 1 Nilsson Manual Solution 8th Free and Paid eBooks
  - Electrical Circuit 1 Nilsson Manual Solution 8th Public Domain eBooks
  - Electrical Circuit 1 Nilsson Manual Solution 8th eBook Subscription Services
  - Electrical Circuit 1 Nilsson Manual Solution 8th Budget-Friendly Options
6. Navigating Electrical Circuit 1 Nilsson Manual Solution 8th eBook Formats
  - ePub, PDF, MOBI, and More
  - Electrical Circuit 1 Nilsson Manual Solution 8th Compatibility with Devices
  - Electrical Circuit 1 Nilsson Manual Solution 8th Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Electrical Circuit 1 Nilsson Manual Solution 8th
  - Highlighting and Note-Taking Electrical Circuit 1 Nilsson Manual Solution 8th
  - Interactive Elements Electrical Circuit 1 Nilsson Manual Solution 8th
8. Staying Engaged with Electrical Circuit 1 Nilsson Manual Solution 8th
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Electrical Circuit 1 Nilsson Manual Solution 8th
9. Balancing eBooks and Physical Books Electrical Circuit 1 Nilsson Manual Solution 8th
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Electrical Circuit 1 Nilsson Manual Solution 8th
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Electrical Circuit 1 Nilsson Manual Solution 8th
  - Setting Reading Goals Electrical Circuit 1 Nilsson Manual Solution 8th
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Electrical Circuit 1 Nilsson Manual Solution 8th
  - Fact-Checking eBook Content of Electrical Circuit 1 Nilsson Manual Solution 8th
  - 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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