G. Rizzoni, Principles and Applications of Electrical Engineering, 5th Edition Problem solutions, Chapter 3

#### Analysis:

a) Assume a direction for the current through R<sub>1</sub> (e.g., from node A toward node B). Then summing currents at node A:

$$KCL$$
:  $-I_1 + I_{R1} + I_3 = 0$ 

$$I_{R1} = I_1 - I_3 = -2 A$$

This can also be done by inspection noting that the assumed direction of the current through  $R_1$  and the direction of  $I_1$  are the same.

b) Assume a direction for the current through R2 (e.g., from node B toward node A). Then summing currents at node B:

$$KCL$$
:  $I_2 + I_{R2} - I_3 = 0$ 

$$I_{R2} = I_3 - I_2 = 4 \text{ A}$$

This can also be done by inspection noting that the assumed direction of the current through  $R_2$  and the direction of  $I_3$  are the same.

c) Only one mesh current flows through R<sub>3</sub>. If the current through R<sub>3</sub> is assumed to flow in the same direction, then:

$$I_{R3} = I_3 = 7A$$
.

## Problem 3.6

In the circuit shown in Figure P3.5, the source and node voltages are VS1 = VS2 = 110 V VA = 103 V VB = -107 V

### Solution:

#### Known quantities:

Circuit shown in Figure P3.5 with source and node voltages:  $V_{S1} = V_{S2} = 110 \ V$ ,  $V_A = 103 \ V$ ,  $V_B = -107 \ V$ .

#### Find:

The voltage across each of the five resistors.

#### Analysis:

Assume a polarity for the voltages across  $R_1$  and  $R_2$  (e.g., from ground to node A, and from node B to ground).  $R_1$  is connected between node A and ground; therefore, the voltage across  $R_1$  is equal to this node voltage.  $R_2$  is connected between node B and ground; therefore, the voltage across  $R_2$  is equal to this voltage.

$$V_{g_1} = V_g = 103 \, \text{V}_s V_{g_2} = V_g = -107 \, \text{V}$$
 (i.e. the voltage drop across  $R_2$  is from ground to node B.)

The two node voltages are with respect to the ground which is given.

Assume a polarity for the voltage across R<sub>3</sub> (e.g., from node B to node A). Then:

$$KVL_1 = -V_A - V_{B1} + V_B = 0$$

 $V_{B3} = V_B - V_A = -210 \, \mathrm{V}$  (i.e. the voltage drop across  $R_I$  is from node A to node B.)

Assume polarities for the voltages across R4 and R5 (e.g., from node A to ground, and from ground to node B):

$$KVL$$
:  $-V_{S1} + V_{S2} + V_{S} = 0$   $KVL$ :  $-V_{S2} - V_{S} - V_{S3} = 0$ 

$$V_{\theta,4} = V_{51} - V_{g} = 7 \text{ V}$$
 $V_{\theta,5}$ 

 $V_{B.5} = -V_{S.2} - V_B = -3$  V (i.e. the voltage drop is from node B toward ground

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# Rizzoni Fundamentals Solutions Manual

Nivaldo J.. Tro, Mary Beth Kramer, Kathy Thrush Shaginaw **Rizzoni Fundamentals Solutions Manual:** 

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# **Table of Contents Rizzoni Fundamentals Solutions Manual**

- 1. Understanding the eBook Rizzoni Fundamentals Solutions Manual
  - The Rise of Digital Reading Rizzoni Fundamentals Solutions Manual
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Rizzoni Fundamentals Solutions Manual
  - 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 Rizzoni Fundamentals Solutions Manual
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Rizzoni Fundamentals Solutions Manual
  - Personalized Recommendations
  - Rizzoni Fundamentals Solutions Manual User Reviews and Ratings

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