

CHAPTER 9: SERIES, PARALLEL, AND SERIES-PARALLEL CIRCUITS

WORKED SOLUTIONS

(These answers might differ slightly from those given in original questions due to rounding off of numbers.)

Question 1:

Always start by drawing a labelled circuit diagram:



Question 1

- (a) $R = R_1 + R_2 + R_3 = 8.4 + 6.8 + 4.8 = 20\ \Omega$ (Answer a.)
(b) $I = \frac{E}{R} = \frac{100}{20} = 5\text{ A}$ (Answer b.)
(c) Voltage drop across R_1 : $U_1 = IR_1 = 5 \times 8.4 = 42\text{ V}$ (Answer c.)
Voltage drop across R_2 : $U_2 = IR_2 = 5 \times 6.8 = 34\text{ V}$ (Answer c.)
Voltage drop across R_3 : $U_3 = IR_3 = 5 \times 4.8 = 24\text{ V}$ (Answer c.)

(You can check these answers by confirming that the sum of the three voltage drops equals the supply voltage.)

Question 3

Always start by drawing a labelled circuit diagram:



Question 3

Chapter 9 Series Parallel And Serparl Circuits

M Woodhall



Chapter 9 Series Parallel And Serparl Circuits:

Unveiling the Magic of Words: A Review of "**Chapter 9 Series Parallel And Serparl Circuits**"

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Table of Contents Chapter 9 Series Parallel And Serparl Circuits

1. Understanding the eBook Chapter 9 Series Parallel And Serparl Circuits
 - The Rise of Digital Reading Chapter 9 Series Parallel And Serparl Circuits
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 9 Series Parallel And Serparl Circuits
 - 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 Chapter 9 Series Parallel And Serparl Circuits
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 9 Series Parallel And Serparl Circuits
 - Personalized Recommendations
 - Chapter 9 Series Parallel And Serparl Circuits User Reviews and Ratings

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