

# Activity - Practice with Complex Circuits

$$V = IR$$

## Part I

In the circuits below, the voltage of the battery is 12 V and each resistor is 2  $\Omega$ . For each circuit:

- Describe the circuit and any assumptions you make. Which resistors are in series? Which are in parallel?
- Calculate the current through each resistor and the voltage across each resistor.

Total:  $8 + 2 = 10$

Series:  $2 + 2 + 2 + 2 = 8 \Omega$

Parallel:  $\frac{1}{2} = 2 \Omega$

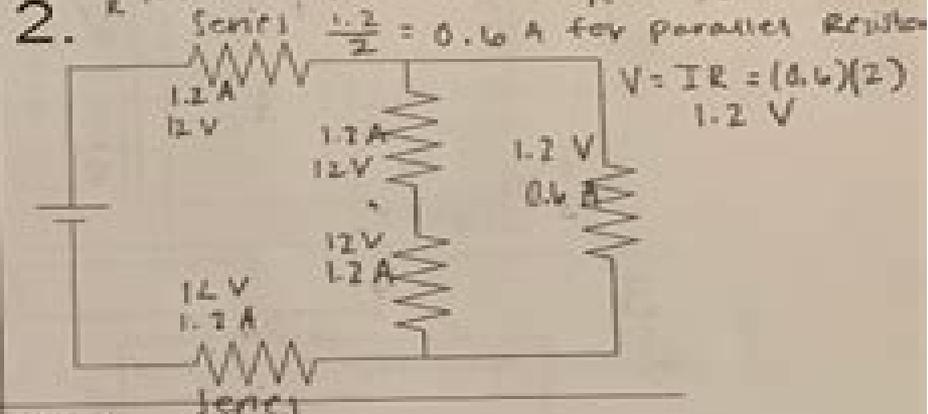
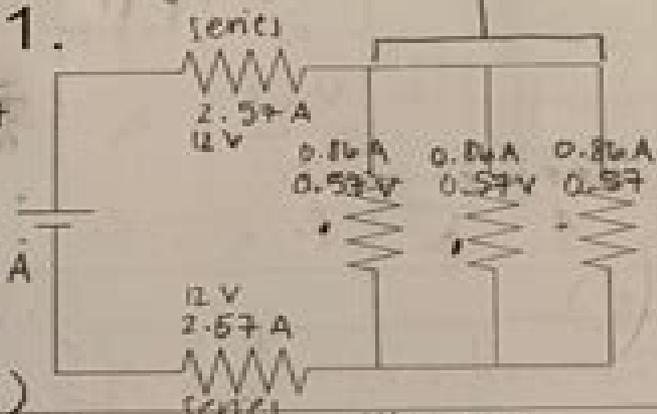
$V = IR \rightarrow I = \frac{V}{R} = \frac{12}{10} = 1.2 A$

$$A = \frac{2 \Omega}{4.67} (12)$$

5.13

$$2 + 2 = 4 \Omega \text{ (series)} \quad \frac{1}{2} + \frac{1}{2} + \frac{1}{2} = \frac{3}{2} = \frac{2}{3} \text{ (parallel)}$$

$$4 + \frac{2}{3} = 4.67 \Omega = \text{total}$$



$$V = IR$$

$$I = \frac{V}{R} = \frac{12}{4.67}$$

$$I = 2.57$$

$$\frac{2.57 A}{3} = 0.86 A$$

$$V = IR$$

$$V = (0.86) \left(\frac{2}{3}\right)$$

$$V = 0.57 V$$

3

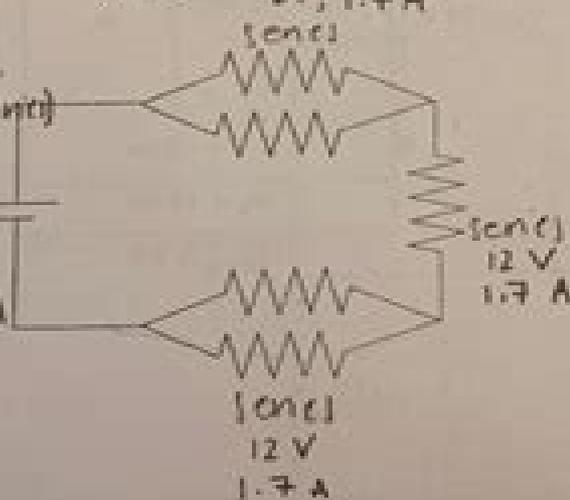
$$\text{Total } R = 6 + 1 = 7 \Omega$$

$$2 + 2 + 2 = 6 \Omega \text{ (series)}$$

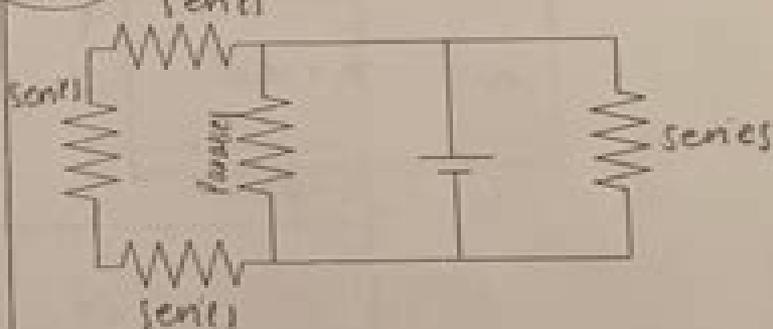
$$\frac{1}{2} + \frac{1}{2} = \frac{2}{2} = 1 \Omega \text{ (parallel)}$$

$$V = IR$$

$$I = \frac{V}{R} = \frac{12}{7} = 1.7 A$$



4



# Complex Circuit Problems And Solutions

**Sanjeev Kumar, Peter J. Bentley**



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## **Table of Contents Complex Circuit Problems And Solutions**

1. Understanding the eBook Complex Circuit Problems And Solutions
  - The Rise of Digital Reading Complex Circuit Problems And Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Complex Circuit Problems And 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 eBook Platform
  - User-Friendly Interface
4. Exploring eBook Recommendations from Complex Circuit Problems And Solutions
  - Personalized Recommendations
  - eBook User Reviews and Ratings
  - eBook Bestseller Lists
5. Accessing Complex Circuit Problems And Solutions Free and Paid eBooks
  - eBook Public Domain eBooks
  - eBook Subscription Services
  - eBook Budget-Friendly Options
6. Navigating Complex Circuit Problems And Solutions eBook Formats

- ePub, PDF, MOBI, and More
  - Complex Circuit Problems And Solutions Compatibility with Devices
  - Complex Circuit Problems And Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Complex Circuit Problems And Solutions
    - Highlighting and Note-Taking Complex Circuit Problems And Solutions
    - Interactive Elements Complex Circuit Problems And Solutions
  8. Staying Engaged with Complex Circuit Problems And Solutions
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Complex Circuit Problems And Solutions
  9. Balancing eBooks and Physical Books Complex Circuit Problems And Solutions
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Complex Circuit Problems And Solutions
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Complex Circuit Problems And Solutions
    - Setting Reading Goals Complex Circuit Problems And Solutions
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Complex Circuit Problems And Solutions
    - Fact-Checking eBook Content of Complex Circuit Problems And Solutions
    - 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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