

# 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 Ω. 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:  $8 + 2 = 10$

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

5.13

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

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

Series =  $2 + 2 + 2 + 2 = 8 \Omega$   
 Parallel =  $\frac{1}{2} = 2 \Omega$   
 $V = IR \rightarrow I = \frac{V}{R} = \frac{12}{10} = 1.2 \text{ A}$

$$V = IR$$

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

$$I = 2.57$$

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

$$V = IR$$

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

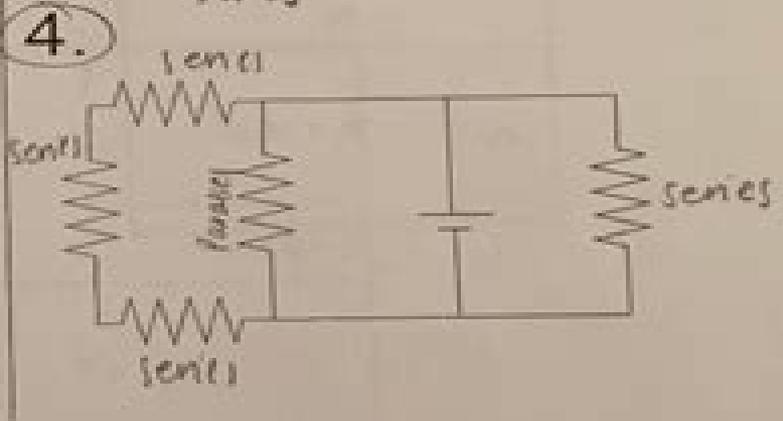
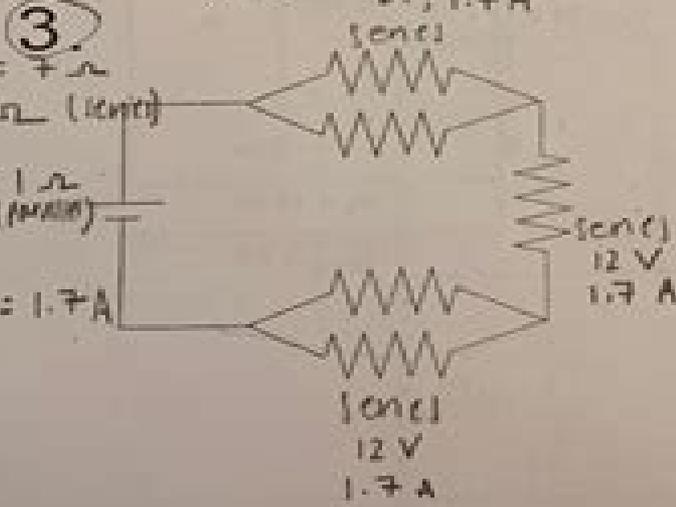
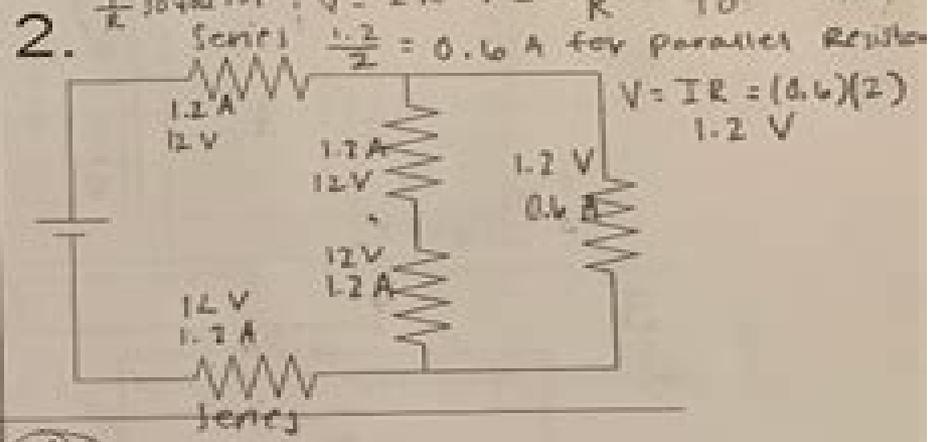
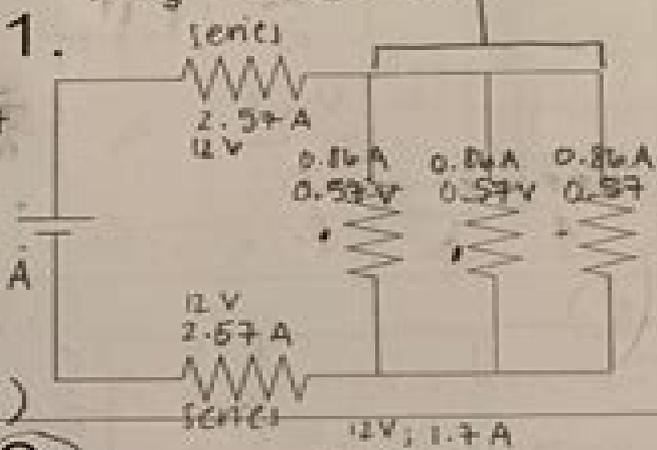
$$V = 0.57 \text{ V}$$

3  
 Total R =  $6 + 1 = 7 \Omega$   
 $2 + 2 + 2 = 6 \Omega$  (series)

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

$$V = IR$$

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



# Complex Circuit Problems And Solutions

**M Planty**



## **Complex Circuit Problems And Solutions:**

The book delves into Complex Circuit Problems And Solutions. Complex Circuit Problems And Solutions is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Complex Circuit Problems And Solutions, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Complex Circuit Problems And Solutions
    - Chapter 2: Essential Elements of Complex Circuit Problems And Solutions
    - Chapter 3: Complex Circuit Problems And Solutions in Everyday Life
    - Chapter 4: Complex Circuit Problems And Solutions in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Complex Circuit Problems And Solutions. This chapter will explore what Complex Circuit Problems And Solutions is, why Complex Circuit Problems And Solutions is vital, and how to effectively learn about Complex Circuit Problems And Solutions.
  3. In chapter 2, the author will delve into the foundational concepts of Complex Circuit Problems And Solutions. This chapter will elucidate the essential principles that need to be understood to grasp Complex Circuit Problems And Solutions in its entirety.
  4. In chapter 3, the author will examine the practical applications of Complex Circuit Problems And Solutions in daily life. This chapter will showcase real-world examples of how Complex Circuit Problems And Solutions can be effectively utilized in everyday scenarios.
  5. In chapter 4, the author will scrutinize the relevance of Complex Circuit Problems And Solutions in specific contexts. The fourth chapter will explore how Complex Circuit Problems And Solutions is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Complex Circuit Problems And Solutions. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Complex Circuit Problems And Solutions.

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