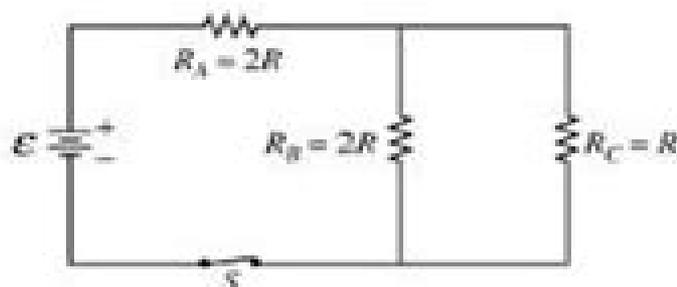


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3. (15 points)

The circuit above contains a battery with negligible internal resistance, a closed switch S , and three resistors, each with a resistance of R or $2R$.

(a)

- i. Rank the currents in the three resistors from greatest to least, with number 1 being greatest. If two resistors have the same current, give them the same ranking.

$$\text{--- } I_A \quad \text{--- } I_B \quad \text{--- } I_C$$

- ii. Justify your answers.

(b)

- i. Rank the voltages across the three resistors from greatest to least, with number 1 being greatest. If two resistors have the same voltage across them, give them the same ranking.

$$\text{--- } V_A \quad \text{--- } V_B \quad \text{--- } V_C$$

- ii. Justify your answers.

For parts (c) through (e), use $\mathcal{E} = 12 \text{ V}$ and $R = 200 \, \Omega$.

(c) Calculate the equivalent resistance of the circuit.

(d) Calculate the current in resistor R_C .

(e) The switch S is opened, resistor R_B is removed and replaced by a capacitor of capacitance $2.0 \times 10^{-6} \text{ F}$, and the switch S is again closed. Calculate the charge on the capacitor after all the currents have reached their final steady-state values.

Ap Optics Response Questions Key Ap Physics B

Greg Jacobs, Joshua Schulman



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Table of Contents Ap Optics Response Questions Key Ap Physics B

1. Understanding the eBook Ap Optics Response Questions Key Ap Physics B
 - The Rise of Digital Reading Ap Optics Response Questions Key Ap Physics B
 - Advantages of eBooks Over Traditional Books
2. Identifying Ap Optics Response Questions Key Ap Physics B
 - 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 Ap Optics Response Questions Key Ap Physics B
 - User-Friendly Interface

4. Exploring eBook Recommendations from Ap Optics Response Questions Key Ap Physics B
 - Personalized Recommendations
 - Ap Optics Response Questions Key Ap Physics B User Reviews and Ratings
 - Ap Optics Response Questions Key Ap Physics B and Bestseller Lists
5. Accessing Ap Optics Response Questions Key Ap Physics B Free and Paid eBooks
 - Ap Optics Response Questions Key Ap Physics B Public Domain eBooks
 - Ap Optics Response Questions Key Ap Physics B eBook Subscription Services
 - Ap Optics Response Questions Key Ap Physics B Budget-Friendly Options
6. Navigating Ap Optics Response Questions Key Ap Physics B eBook Formats
 - ePub, PDF, MOBI, and More
 - Ap Optics Response Questions Key Ap Physics B Compatibility with Devices
 - Ap Optics Response Questions Key Ap Physics B Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ap Optics Response Questions Key Ap Physics B
 - Highlighting and Note-Taking Ap Optics Response Questions Key Ap Physics B
 - Interactive Elements Ap Optics Response Questions Key Ap Physics B
8. Staying Engaged with Ap Optics Response Questions Key Ap Physics B
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ap Optics Response Questions Key Ap Physics B
9. Balancing eBooks and Physical Books Ap Optics Response Questions Key Ap Physics B
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ap Optics Response Questions Key Ap Physics B
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ap Optics Response Questions Key Ap Physics B
 - Setting Reading Goals Ap Optics Response Questions Key Ap Physics B
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Ap Optics Response Questions Key Ap Physics B
 - Fact-Checking eBook Content of Ap Optics Response Questions Key Ap Physics B
 - 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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