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## HOMWORK FOR LAB 11: INTRODUCTION TO CAPACITORS AND RC CIRCUITS (RTP 3-5)

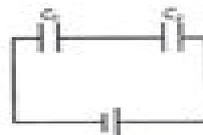
1. Explain in terms of the charge, electric field, and potential difference the dependence of capacitance of a parallel-plate capacitor on area and separation of the plates in the equation  $C = \epsilon_0 A/d$ . (For example, if you increase  $A$ , how does this affect  $Q$ ,  $E$ ,  $V$ ? How would this change  $C$  according to the definition? Same thing for  $d$ .)

$C = \frac{\epsilon_0 A}{d}$ ,  $Q = CV$  //  $\Delta V = Ed$  ✓  
 ✓ If  $A$  increases,  $Q$  increases and  $V$  decreases. If  $V$  decreases,  $E$  decreases.  
 If  $d$  increases,  $Q$  decreases but  $V$  increases.

2. A 1.5-V battery is connected to a 250- $\mu\text{F}$  capacitor. How much charge is found on the capacitor plates?

$C = 250 \mu\text{F} = 250 \times 10^{-6} \text{F} = 2.50 \times 10^{-4} \text{F}$   
 $Q = CV$   
 $Q = (2.5 \times 10^{-4} \frac{\text{C}}{\text{V}})(1.5 \text{V}) = 3.75 \times 10^{-4} \text{C}$

3. For the circuit below with two capacitors of different capacitance in series, indicate whether the statements below are TRUE or FALSE, and for each false statement, write a correct one.



✓ a. Both capacitors have the same amount of charge on their plates. True

✓ b. The voltages across both capacitors are the same. False  
 Voltages across capacitors depends on relationship between charge and capacitance of each capacitor.

c. The sum of the voltages on the two capacitors equals the voltage of the battery.

True ✓

# Real Time Physics Lab 4 Answers

**KJ Lindholm-Leary**



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## **Table of Contents Real Time Physics Lab 4 Answers**

1. Understanding the eBook Real Time Physics Lab 4 Answers
  - The Rise of Digital Reading Real Time Physics Lab 4 Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Real Time Physics Lab 4 Answers
  - 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 Real Time Physics Lab 4 Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Real Time Physics Lab 4 Answers
  - Personalized Recommendations
  - Real Time Physics Lab 4 Answers User Reviews and Ratings
  - Real Time Physics Lab 4 Answers and Bestseller Lists
5. Accessing Real Time Physics Lab 4 Answers Free and Paid eBooks
  - Real Time Physics Lab 4 Answers Public Domain eBooks

- Real Time Physics Lab 4 Answers eBook Subscription Services
- Real Time Physics Lab 4 Answers Budget-Friendly Options
- 6. Navigating Real Time Physics Lab 4 Answers eBook Formats
  - ePub, PDF, MOBI, and More
  - Real Time Physics Lab 4 Answers Compatibility with Devices
  - Real Time Physics Lab 4 Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Real Time Physics Lab 4 Answers
  - Highlighting and Note-Taking Real Time Physics Lab 4 Answers
  - Interactive Elements Real Time Physics Lab 4 Answers
- 8. Staying Engaged with Real Time Physics Lab 4 Answers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Real Time Physics Lab 4 Answers
- 9. Balancing eBooks and Physical Books Real Time Physics Lab 4 Answers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Real Time Physics Lab 4 Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Real Time Physics Lab 4 Answers
  - Setting Reading Goals Real Time Physics Lab 4 Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Real Time Physics Lab 4 Answers
  - Fact-Checking eBook Content of Real Time Physics Lab 4 Answers
  - 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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