

PHYSICS 2200 – PRACTICE MIDTERM with Answers

1) Determine the equivalent capacitance of the combination shown when $C = 24 \mu\text{F}$.



a. $20 \mu\text{F}$

b. $36 \mu\text{F}$

c. $16 \mu\text{F}$

d. $45 \mu\text{F}$

e. $27 \mu\text{F}$

Answer: C

2) In the figure, all the charges are point charges and the charge in the middle is $Q = -3.1 \text{ nC}$. For what charge q_1 will charge q_2 be in static equilibrium?



A) 12 nC

B) 6.2 nC

C) 3.1 nC

D) 25 nC

Answer: A

3) The figure shows two tiny 5.0-g spheres suspended from two very thin 1.0-m -long threads. The spheres repel each other after being charged to $+91 \text{ nC}$ and hang at rest as shown. What is the angle θ ? ($k = 1/4\pi\epsilon_0 = 8.99 \times 10^9 \text{ N} \cdot \text{m}^2/\text{C}^2$)

A) 4.1°

B) 8.2°

C) 12°

D) 16°

Answer: A

4) In the figure $Q = 5.8 \text{ nC}$ and all other quantities are accurate to 2 significant figures. What is the magnitude of the force on the charge Q ? ($k = 1/4\pi\epsilon_0 = 8.99 \times 10^9 \text{ N} \cdot \text{m}^2/\text{C}^2$)

A) $1.8 \times 10^{-3} \text{ N}$

B) $1.0 \times 10^{-3} \text{ N}$

C) $9.0 \times 10^{-4} \text{ N}$

D) $1.2 \times 10^{-3} \text{ N}$

Answer: A

5) Two point charges of $+20.0 \mu\text{C}$ and $-8.00 \mu\text{C}$ are separated by a distance of 20.0 cm . What is the magnitude of electric field due to these charges at a point midway between them? ($k = 1/4\pi\epsilon_0 = 8.99 \times 10^9 \text{ N} \cdot \text{m}^2/\text{C}^2$)

A) $25.2 \times 10^6 \text{ N/C}$ directed toward the negative charge



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Daniel F McAuley



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Table of Contents Answers For Physics Lab Midterm Exam

1. Understanding the eBook Answers For Physics Lab Midterm Exam
 - The Rise of Digital Reading Answers For Physics Lab Midterm Exam
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers For Physics Lab Midterm Exam
 - 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 Answers For Physics Lab Midterm Exam
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For Physics Lab Midterm Exam
 - Personalized Recommendations
 - Answers For Physics Lab Midterm Exam User Reviews and Ratings
 - Answers For Physics Lab Midterm Exam and Bestseller Lists
5. Accessing Answers For Physics Lab Midterm Exam Free and Paid eBooks
 - Answers For Physics Lab Midterm Exam Public Domain eBooks
 - Answers For Physics Lab Midterm Exam eBook Subscription Services
 - Answers For Physics Lab Midterm Exam Budget-Friendly Options
6. Navigating Answers For Physics Lab Midterm Exam eBook Formats

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