

3.

A charge of $Q = +10^{-6} \text{ C}$ is uniformly distributed around a circular ring of radius $R = 30 \text{ cm}$. The ring is in the yz plane with its center at the origin. The axis of the ring is the x -axis.

- What is the linear charge density, λ , of the circular ring?
- Find the magnitude and direction of the electric field vector, $\vec{E}$, along the axis of the ring at the point $x = 40 \text{ cm}$.
- What point charge q could be placed at the center of the ring, $x = 0$, to make the electric field zero at $x = 40 \text{ cm}$?

(3)

$$a.) \lambda = \frac{Q}{2\pi R} = \frac{10^{-6} \text{ C}}{2\pi(0.3 \text{ m})} = 5.3 \times 10^{-6} \text{ C/m}$$

b.) E_x & E_y cancel, so direction of $\vec{E}$ is along $\hat{x}$ or $\hat{i}$

$$dE_x = dE \cos \alpha = dE \left(\frac{x}{r} \right)$$

$$dE = \frac{dq}{4\pi\epsilon_0 r^2}; \quad dq = \lambda R d\theta \quad \text{where } \theta \text{ is angle around ring}$$

$$\text{So } E_x = \int \cos \alpha dE = \int_0^{2\pi} \frac{\lambda R x d\theta}{4\pi\epsilon_0 r^3} = \frac{\lambda R x}{4\pi\epsilon_0 r^3} \int_0^{2\pi} d\theta = \frac{2\pi \lambda R x}{4\pi\epsilon_0 r^3}$$

$$\vec{E} = E_x \hat{i} = \frac{\lambda R x}{2\epsilon_0 r^3} = \left(\frac{Q}{2\pi R} \right) \frac{R x}{2\epsilon_0 r^3} = \frac{Q x}{4\pi\epsilon_0 r^3} \hat{i}$$

$$\vec{E} = \frac{Q x}{4\pi\epsilon_0 (R^2 + x^2)^{3/2}} \hat{i} = \frac{(9 \times 10^9 \frac{\text{N m}^2}{\text{C}^2})(10^{-6} \text{ C})(0.4 \text{ m}) \hat{i}}{(0.4^2 + 0.3^2)^{3/2}} = 2.88 \times 10^4 \frac{\text{N}}{\text{C}} \hat{i}$$

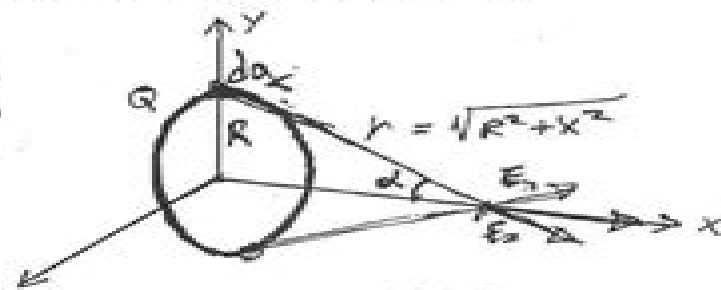
c.) Want $\vec{E}$ from q to be in $-\hat{x}$ dir., so q is negative also want.

$$E_q = E_{\text{ring}}$$

$$\frac{q}{4\pi\epsilon_0 x^2} = E_{\text{ring}}$$

$$q = (4\pi\epsilon_0 x^2) E_{\text{ring}} = \left(\frac{1}{9 \times 10^9} \right) (0.4)^2 (2.88 \times 10^4) \text{ C}$$

$$q = 5.12 \times 10^{-7} \text{ C}$$



(8)

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Table of Contents General Physics Ii Fall 2016 Phy 162 003

1. Understanding the eBook General Physics Ii Fall 2016 Phy 162 003
 - The Rise of Digital Reading General Physics Ii Fall 2016 Phy 162 003
 - Advantages of eBooks Over Traditional Books
2. Identifying General Physics Ii Fall 2016 Phy 162 003
 - 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 General Physics Ii Fall 2016 Phy 162 003
 - User-Friendly Interface
4. Exploring eBook Recommendations from General Physics Ii Fall 2016 Phy 162 003

-
- Personalized Recommendations
 - General Physics Ii Fall 2016 Phy 162 003 User Reviews and Ratings
 - General Physics Ii Fall 2016 Phy 162 003 and Bestseller Lists
5. Accessing General Physics Ii Fall 2016 Phy 162 003 Free and Paid eBooks
 - General Physics Ii Fall 2016 Phy 162 003 Public Domain eBooks
 - General Physics Ii Fall 2016 Phy 162 003 eBook Subscription Services
 - General Physics Ii Fall 2016 Phy 162 003 Budget-Friendly Options
 6. Navigating General Physics Ii Fall 2016 Phy 162 003 eBook Formats
 - ePub, PDF, MOBI, and More
 - General Physics Ii Fall 2016 Phy 162 003 Compatibility with Devices
 - General Physics Ii Fall 2016 Phy 162 003 Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of General Physics Ii Fall 2016 Phy 162 003
 - Highlighting and Note-Taking General Physics Ii Fall 2016 Phy 162 003
 - Interactive Elements General Physics Ii Fall 2016 Phy 162 003
 8. Staying Engaged with General Physics Ii Fall 2016 Phy 162 003
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers General Physics Ii Fall 2016 Phy 162 003
 9. Balancing eBooks and Physical Books General Physics Ii Fall 2016 Phy 162 003
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection General Physics Ii Fall 2016 Phy 162 003
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine General Physics Ii Fall 2016 Phy 162 003
 - Setting Reading Goals General Physics Ii Fall 2016 Phy 162 003
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of General Physics Ii Fall 2016 Phy 162 003

- Fact-Checking eBook Content of General Physics Ii Fall 2016 Phy 162 003
- 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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