

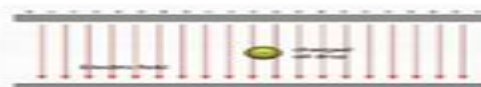
1 of 3

HOMEWORK 4

Mastering Physics HW due online on Friday, 2/17/2023 at 11:59PM.

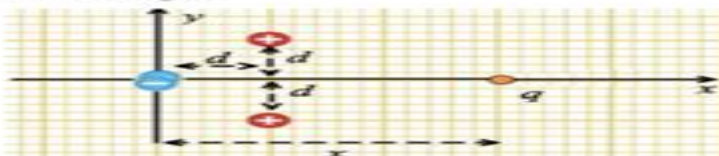
Hand-written solutions to the following questions are due on Wednesday 2/15/2023, on paper, at the beginning of your recitation session.

- 1) (40 pts) In the "Millikan oil drop experiment", an atomizer (a sprayer with a fine nozzle) is used to introduce many tiny droplets of oil between two oppositely charged parallel metal plates held in a vacuum chamber. The original apparatus and a simplified schematic are shown. The two plates are just above and below the small magnifying scope sticking out on the right of the apparatus. The entire apparatus is about 1 meter high.



Some of the droplets pick up one or more excess electrons as they are sprayed into the chamber. The charge on the plates is adjusted so that the electric force on these excess electrons exactly balances the weight of the whole droplet. The idea is to look for a droplet that requires the smallest electric force, and assume that it has only one excess electron. This lets the observer measure the charge on the electron. Estimate the radius of an oil drop that would be balanced by a voltage difference of 10 kV (10,000 Volts). Draw a **free body diagram** to support your answer, and **do not use a calculator**! Hint: you may find it useful to know that the density of water is 1 g/cm^3 . Oil is not water, however. . . .

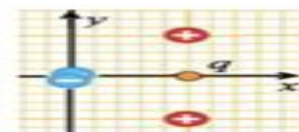
- 2) (50 pts total) In this problem we will explore the electric effects produced by a neutral molecule on charges nearby. We will consider a "toy" (very simple) model of a water molecule that has charge $-2e$ localized on the oxygen atom and charges of $+e$ localized on each hydrogen atom. In addition, for simplicity of calculations, we will consider the OH bonds to be perpendicular to each other as shown in the figure.



- A. (20 pts) First consider the electrostatic potential, V , produced by this molecule along its line of symmetry (aka the x-axis). A positive test charge, q , is exploring the electrostatic potential along the positive x axis. If the locations of the charges in the water molecule are located as shown, which of the following equations could correctly represent the potential measured by the test charge? For each option that doesn't work, explain why it doesn't work, and identify the electrostatic property it could represent instead.

- a. $V = 2 \frac{kqe}{\sqrt{(x-d)^2 + d^2}} - 2 \frac{kqe}{\sqrt{x^2}}$
 b. $V = 2 \frac{ke}{\sqrt{(x-d)^2 + d^2}} - 2 \frac{ke}{\sqrt{x^2}}$
 c. $V = 2 \frac{kqe}{(x-d)^2 + d^2} - 2 \frac{kqe}{x^2}$
 d. $V = 2 \frac{ke}{(x-d)^2 + d^2} - 2 \frac{ke}{x^2}$

- B. (10 pts) Now consider the electric field that the test charge would measure. Suppose that the test charge is negative and is moved to the position between the H atoms shown in the figure at right. What can you say about the electric potential and the electric field measured by the negative test charge? **Explain your reasoning.** Support your answer by treating the three water molecule atoms as *individual point sources* and calculating the total electric potential V at the test charge's location. (Note: this is not the same situation as in the previous question, but it's very possible to leverage



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Table of Contents Mastering Physics Answers Exercise 45

1. Understanding the eBook Mastering Physics Answers Exercise 45
 - The Rise of Digital Reading Mastering Physics Answers Exercise 45
 - Advantages of eBooks Over Traditional Books
2. Identifying Mastering Physics Answers Exercise 45
 - 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 Mastering Physics Answers Exercise 45
 - User-Friendly Interface
4. Exploring eBook Recommendations from Mastering Physics Answers Exercise 45
 - Personalized Recommendations
 - Mastering Physics Answers Exercise 45 User Reviews and Ratings
 - Mastering Physics Answers Exercise 45 and Bestseller Lists
5. Accessing Mastering Physics Answers Exercise 45 Free and Paid eBooks
 - Mastering Physics Answers Exercise 45 Public Domain eBooks
 - Mastering Physics Answers Exercise 45 eBook Subscription Services
 - Mastering Physics Answers Exercise 45 Budget-Friendly Options

6. Navigating Mastering Physics Answers Exercise 45 eBook Formats
 - ePub, PDF, MOBI, and More
 - Mastering Physics Answers Exercise 45 Compatibility with Devices
 - Mastering Physics Answers Exercise 45 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mastering Physics Answers Exercise 45
 - Highlighting and Note-Taking Mastering Physics Answers Exercise 45
 - Interactive Elements Mastering Physics Answers Exercise 45
8. Staying Engaged with Mastering Physics Answers Exercise 45
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mastering Physics Answers Exercise 45
9. Balancing eBooks and Physical Books Mastering Physics Answers Exercise 45
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mastering Physics Answers Exercise 45
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Mastering Physics Answers Exercise 45
 - Setting Reading Goals Mastering Physics Answers Exercise 45
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Mastering Physics Answers Exercise 45
 - Fact-Checking eBook Content of Mastering Physics Answers Exercise 45
 - 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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