

## Physics 1A PHYS1131 2007-S1 Answers

1. 14 Marks Total

(a) Coulomb's law is given by  $F_e = k_e \frac{q_1 q_2}{r^2} \hat{r}$  where  $F_e$  is the electric force between two charges,  $q_1$  and  $q_2$ , a distance  $r$  apart.  $k_e$  is Coulomb's constant.  $\hat{r}$  is the unit vector directed between  $q_1$  and  $q_2$ .

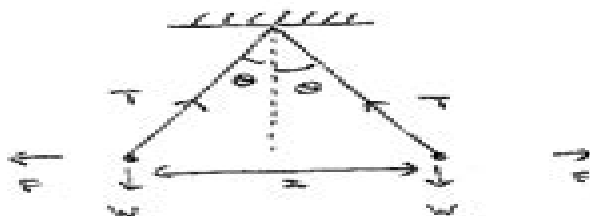
Coulomb's law states that the electric force between two charges depends on the product of the charges and inversely on the square of their separation.

The constant of proportionality is known as Coulomb's constant.

The direction of the force is along the line joining the charges, such that for two charges of the same sign it is repulsive (directed directly away from each other), whereas if the charges are of opposite sign, then it is directed towards each other.

Note OK to have used  $k_e = \frac{1}{4\pi\epsilon_0}$  instead [permittivity of free space].

(b)



(i) There are three forces acting on each charge, the electrostatic repulsion between the two charges,  $F$ , its weight due to gravity,  $W$ , and the tension in the silk thread,  $T$ .

These must be balanced for the charges to be in equilibrium.

We have  $W = mg$ , acting vertically, for the action of gravity,

and  $F = k_e q^2 / x^2$ , acting horizontally, for the electric force.

Thus, resolving the forces:

$$\text{Horizontally: } T \sin(\theta) = F = \frac{k_e q^2}{x^2} \quad (1)$$

$$\text{Vertically: } T \cos(\theta) = W = mg \quad (2)$$

$$\text{Eliminating } T \text{ by dividing (1) by (2): } \tan(\theta) = \frac{k_e q^2}{mgx^2}$$

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**IM Harris**



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## **Table of Contents Higher Physics Past Paper Answers**

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

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