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Electrostatic Problems with Solutions and  
Explanations. Projectile problems are  
presented along with detailed solutions.

Problem 1: What is the net force and its  
direction that the charges at the vertices A  
and C of the right triangle ABC exert on the  
charge in

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Problem 7: The distance between two charges  $q_1 = +2 \mu\text{C}$  and  $q_2 = +6 \mu\text{C}$  is 15.0 cm.

Calculate the distance from charge  $q_1$  to the  
points on the line segment joining the two  
charges where the electric field is zero.

Solution to Problem 7: At a distance  $x$  from  
 $q_1$  the total electric field is the vector sum  
of the electric  $E_1$  from due to  $q_1$  and  
directed to the right and the electric field  
 $E_2$  ...

## **Electrostatic Problems with Solutions and Explanations**

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- 6 -  $dq = \sigma dA = \frac{1}{2} q \sin\theta dq$  where  $q$  is the total charge on the shell. The electric field produced by this ring at  $P$  can be calculated using the solution of Problem 2.5:  $dE = \frac{1}{8\pi\epsilon_0} \frac{q}{r^2} \frac{z-r \cos\theta}{(r^2 + z^2 - 2zr \cos\theta)^{3/2}}$   $\sin\theta dq$  The total field at  $P$  can be found by integrating  $dE$  with respect to  $q$ :  $E = \frac{1}{8\pi\epsilon_0}$

## Chapter 2. Electrostatics

Electrostatics Exam1 and Problem Solutions 1. If we touch two spheres to each other, find the final charges of the spheres. Charge per unit radius is found;  $q_r = (Q_1 + Q_2) / (r_1 + r_2)$   $q_r = (20 - 5)q / (2r + r) = 5q/r$  Charge of first sphere becomes;  $Q_1 = q_r \cdot r_1 = 5q/r \cdot 2r = 10q$  Charge of second sphere becomes;  $Q_2 = q_r \cdot r_2 = 5q/r \cdot r = 5q$  2.

## Electrostatics Exam1 and Problem Solutions

Electrostatics Exam1 and Problem Solutions 1. If we touch two spheres to each other, find the final charges of the spheres. Charge per unit radius is found;  $q_r = (Q_1 + Q_2) / (r_1 + r_2)$   $q_r = (20 - 5)q / (2r + r) = 5q/r$  Charge of first sphere becomes;  $Q_1 = q_r \cdot r_1 = 5q/r \cdot 2r = 10q$  Charge of second sphere becomes;  $Q_2 = q_r \cdot r_2 = 5q/r \cdot r = 5q$  2.

## Electrostatics Exam1 and Problem Solutions

Practice Problems: The Basics of Electrostatics Click here to see the solutions. If you feel that you have mastered these topics through the work you did in Physics 1, you do not need to work these

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problems. 1. (easy) A point charge ( $q_1$ ) has a magnitude of  $3 \times 10^{-6}$  C.

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Ans. It means that the electrostatic force between the charges reduces to  $1/80$  th times when placed in water medium. Q11. Why one ignore the quantization of charge when dealing with macroscopic (large charges) charges? Ans. In practice, the charges on

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bodies are large whereas the charge on electrons are smaller. If electron (of charge  $e$ ) is added or

## Questions & Answers on Electrostatics

Solving Electrostatic Problems Today's topics  
1. Learn how to solve electrostatic problems  
2. Overview of solution methods  
3. Simple 1-D problems  
4. Reduce Poisson's equation to Laplace's equation  
5. Capacitance  
6. The method of images  
Overview 1. Illustrated below is a fairly general problem in electrostatics. Many

## Lecture 2 Solving Electrostatic Problems

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Read Free Electrostatics Problems And Solutions Electrostatics Problems And Solutions Solution to Problem 1: Let  $F_{AB}$  be the force of repulsion exerted by the charge at A on the charge at B and  $F_{CB}$  be the force exerted by the charge at point C on the charge at point B. The diagram below shows the direction of these two forces.

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If electrostatics problems always involved localized discrete or continuous distribution of charge with no boundary conditions, the general solution for the potential  $\phi(r)$  (2.1) would be the most convenient and straightforward solution to any problem. There would be no need of the Poisson or Laplace equations.

## **Section 2: Electrostatics**

Electrostatics - Part 2: More examples, problems with solutions, MCQ Quizzes - related to Capacitance, Electric Flux, Electrostatic Potential  
Target Audience: High School Students, College Freshmen and Sophomores, students preparing for the International Baccalaureate (IB), AP Physics B, AP Physics C, A Level, Singapore/GCE A-Level;

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