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## **Chapter 15 Electric Forces And**

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Chapter 15 Electric Forces and Electric Fields Problem Solutions 15.1 F R Since these are like charges (both positive), the force is FF 63 and . 15.2 Particle A exerts a force toward the right on particle B. By Newton's third law, particle B will then exert a force toward the left back on particle A. The ratio of the final

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## **Physics Chapter 15 Electric Forces and Electric Fields ...**

Chapter 15 Electric Forces and Electric Fields. First Observations - ... be the direction of the electric force that would be exerted on a small positive test charge placed at that point  $2 e o kQ q r$  ...

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## Electric Forces And Electric Fields

### **Chapter 15**

Section 15.1. Conductors. •Conductors are materials in which the electric charges move freely in response to an electric force. -Copper, aluminum and silver are good conductors. -When a conductor is charged in a small region, the charge readily distributes itself over the entire surface of the material.



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Section 15.2.

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PHY232 Electric Forces & Fields 15  
questions: true false A C B a) if A and C

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are positive, B is pushed away from A and C b) if A is positive and B is positive, A and B will move further apart c) if A is neutral and C is positive, B will move along the line BC d) if A,B and C have the same charge, they will separate further ...

### **Electric forces & fields**

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Etkina/Gentile/Van Heuvelen Process  
Physics 1/e, Chapter 15 15-5 This is  
consistent with our understanding of the  
electric interaction; we have learned  
that the electric force that charges exert  
on each other is greater when the  
charges are closer. Notice how the  
rubber

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## **Chapter 15: Electric Field: Force and Energy Approaches**

CHAPTER 15 PRE-TEST: ELECTRIC FORCE AND FIELDS Multiple Choice Identify the choice that best completes the statement or answers the question. 1. What happens when a rubber rod is rubbed with a piece of fur, giving it a negative charge? a. Protons are

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removed from the rod. c. Electrons are added to the fur. b. Electrons are added to the rod. d.

## **CHAPTER 15 PRE-TEST: ELECTRIC FORCE AND FIELDS**

Chapter 15: Electric Forces and Electric Fields. 1. A suspended object A is attracted to a neutral wall. It's also

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attracted to a positively charged object B. Which of the following is true about object A? (a) It is uncharged. (b) It has a negative charge. (c) It has a positive charge. (d) It may be either charged or uncharged. 2.

### **Chapter 15: Electric Forces and Electric Fields**



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Chapter 15 Electric Forces and Electric Fields Properties of Electric Charges • Two types of charges exist – They are called positive and negative • Like charges repel and unlike charges attract one another • Nature's basic carrier of positive charge is the proton – Protons do not move from one material to another because they are held firmly in

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### **Properties of Electric Charges**

### **Chapter 15**

Two electrons are separated by 1 cm.  
Ratio of electric to gravitational force? d.  
 $4.2 \times 10^{42}$  A 6.0  $\mu\text{C}$  charge is placed at the origin and a second charge is placed at the axis  $x = 0.3$ .

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## **Chapter 15: Electrostatics Flashcards | Quizlet**

CHAPTER 15 ELECTRIC FORCE & FIELDS.

1. CHAPTER 15 ELECTRIC FORCE & FIELDS. We will look at the basic properties of electric charge. •Electric charge comes in discrete units. •The total charge in the universe remains constant. •The force law that describes

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the interactions between electric charges. •Static Electricity; Electric Charge and Its Conservation.

## **CHAPTER 15 ELECTRIC FORCE & FIELDS**

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## **Chapter 15 - Electric Forces and Electric Fields**

Chapter 15 Electric Forces and Electric  
Fields Quick Quizzes 1. (b). Object A  
must have a net charge because two

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neutral objects do not attract each other. Since object A is attracted to positively-charged object B, the net charge on A must be negative. 2. (b). By Newton's third law, the two objects will exert forces having equal magnitudes but

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## **Electric Fields**

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Electric Fields (b) The magnitude of the  
retarding force acting on

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## **Electric Forces and Electric ...**

PHY112 - Chapter 15 - Problems -  
Electric Forces and Electric Fields 1. A  
7.50-nC charge is located 1.80 m from a  
4.20-nC charge.

## **PHY112 - Chapter 15 - Problems - Electric Forces and ...**

Etkina/Gentile/Van Heuvelen Process



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Physics1/e, Chapter 15 15-5 This is consistent with our understanding of the electric interaction; we have learned that the electric force that charges exert on each other is greater when the charges are closer.

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