

## RUPHYS2272013 | RUPHYS2272013

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## H1 Coulomb's Law, Electric Fields (21.1-7)

Due: 11:58pm on Monday, September 9, 2013

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## Problem 21.12

**Description:** A charge of  $-q$  exerts an upward force of magnitude  $F$  on an unknown charge which is a distance of  $x$  directly below it. (a) What is the unknown charge (magnitude and sign)? (b) What is the magnitude of the force that the unknown charge exerts on...A charge of  $-0.560\mu\text{C}$  exerts an upward force of magnitude  $0.240\text{N}$  on an unknown charge which is a distance of  $0.350\text{m}$  directly below it.

## Part A

What is the unknown charge (magnitude and sign)?

Use  $8.85 \times 10^{-12} \text{C}^2/(\text{N} \cdot \text{m}^2)$  for the permittivity of free space.

ANSWER:

$$\frac{4\pi\epsilon_0 F x^2}{q} = 5.84 \times 10^{-6} \text{ C}$$

$$\text{Also accepted: } \frac{1}{q} F x^2 = 1.96 \times 10^6, \quad \frac{1}{q} F x^2 = 2.45 \times 10^5$$

## Part B

What is the magnitude of the force that the unknown charge exerts on the charge of magnitude  $0.560\mu\text{C}$ ?

ANSWER:

$$F = 0.240 \text{ N}$$

## Part C

What is the direction of the force that the unknown charge exerts on the charge of magnitude  $0.560\mu\text{C}$ ?

ANSWER:

- ☐ upward
- ☒ downward

## Exercise 21.13

**Description:** Three point charges are arranged on a line. Charge  $q_3 = +5.00\text{nC}$  and is at the origin. Charge  $q_2 = -8.00\text{nC}$  and is at  $x_2 = -3.00\text{cm}$ . Charge  $q_1$  is at  $x_1 = +4.00\text{cm}$ . (a) What is  $q_1$  (magnitude and sign) if the net force on  $q_3$  is zero?Three point charges are arranged on a line. Charge  $q_3 = +5.00\text{nC}$  and is at the origin. Charge  $q_2 = -3.00\text{nC}$  and is at  $x = 3.50\text{cm}$ . Charge  $q_1$  is at  $x =$

# Mastering Physics Print View With Answers Rutgers

**Rachel S Tattersall**



**Mastering Physics Print View With Answers Rutgers:**

## Reviewing **Mastering Physics Print View With Answers Rutgers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Mastering Physics Print View With Answers Rutgers**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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