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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 0.240N on an unknown charge which is a distance of 0.350m 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 $x =$

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Daniela Niemeyer



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