

College Physics 8th Edition by Serway and Vuille

Answers to assigned problems

Chapter 15

Problem 5

- a) $F = 36.9 \text{ N}$
- b) $a = 5.52 \times 10^{27} \text{ m/s}^2$

Problem 7

$$F = 5.07 \times 10^5 \text{ N}$$

Problem 9

- a) $F = 2.16 \times 10^{-5} \text{ N}$ (attract)
- b) $F = 8.99 \times 10^{-7} \text{ N}$ (repel)

Problem 13

$$F = 0.437 \text{ N}$$
$$\phi = -85.3^\circ \text{ (Downward and to the right)}$$

Problem 15

$$q = 7.22 \times 10^{-9} \text{ C} = 7.22 \text{ nC}$$

Problem 19

$$E = 7.20 \times 10^5 \text{ N/C}$$

Problem 23

- a) $a = 6.13 \times 10^{10} \text{ m/s}^2$
- b) $t = 1.96 \times 10^{-5} \text{ s} = 19.6 \mu\text{s}$
- c) $d = 11.8 \text{ m}$
- d) $KE = 1.2 \times 10^{-15} \text{ J}$

Problem 26

$$x = 0.853 \text{ m}$$

Problem 32

Ask for diagrams

Problem 38

$$r = 5.15 \times 10^{-7} \text{ m} = 0.515 \mu\text{m}$$

Problem 42

- a) $q = 3.38 \times 10^{-9} \text{ C}$
- b) You only know that the charge is distributed spherically symmetrically within the sphere.

Problem 47

- a) $E = -8 \text{ N/C}$
- b) $E = 0 \text{ N/C}$
- c) $E = 1.44 \text{ N/C}$
- d) 2 nC on the inside surface and 1 nC on the outside surface of the sphere

Problem 52

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Xiang Xie



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