

## Serway Chapter 23 Solutions

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### Serway Chapter 23 Solutions

Chapter 23 Solutions. 23.1(a)  $N = 10.0 \text{ grams} / 107.87 \text{ grams/mol} = 6.02 \times 10^{-23} \text{ atoms/mol}$ . 47.0 electrons/atom  $= 6.02 \times 10^{-23} \text{ atoms/mol} \times 47.0 \text{ electrons/atom} = 2.83 \times 10^{24}$ . (b) # electrons added =  $Q/e = 1.00 \times 10^{-3} \text{ C} / 1.60 \times 10^{-19} \text{ C/electron} = 6.25 \times 10^{15}$ . or 2.38 electrons for every 10.

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As shown in the solution figure at right,  $\vec{E}_1$  is to the right and upward at  $60^\circ$  to the horizontal and  $\vec{E}_2$  is to the left and upward at  $60^\circ$  to the horizontal.  $E = kq/r^2$ .  $E_1 = kq_1/r_1^2 = (9.0 \times 10^9 \text{ N}\cdot\text{m}^2/\text{C}^2)(1.73 \times 10^{-6} \text{ C})/(0.1 \text{ m})^2 = 1.62 \times 10^6 \text{ N/C}$ .  $E_2 = kq_2/r_2^2 = (9.0 \times 10^9 \text{ N}\cdot\text{m}^2/\text{C}^2)(1.73 \times 10^{-6} \text{ C})/(0.1 \text{ m})^2 = 1.62 \times 10^6 \text{ N/C}$ .  $E_x = E_1 \cos 60^\circ - E_2 \cos 60^\circ = 0$ .  $E_y = E_1 \sin 60^\circ + E_2 \sin 60^\circ = 2.77 \times 10^6 \text{ N/C}$ .  $E = 2.77 \times 10^6 \text{ N/C}$ .

### Physics 42 HW Set 1 Serway Solutions Chapter 23

Serway Chapter 23 Solutions Chapter 23 Solutions 23.1 (a)  $N = 10.0 \text{ grams} / 107.87 \text{ grams/mol} = 6.02 \times 10^{-23} \text{ atoms/mol}$ . 47.0 electrons/atom  $= 6.02 \times 10^{-23} \text{ atoms/mol} \times 47.0 \text{ electrons/atom} = 2.83 \times 10^{24}$ . (b) # electrons added =  $Q/e = 1.00 \times 10^{-3} \text{ C} / 1.60 \times 10^{-19} \text{ C/electron} = 6.25 \times 10^{15}$  or 2.38 electrons for every 10 already present. 23.2 (a)  $F_e = kq_1q_2/r^2 = 8.99 \times 10^9 \text{ N}\cdot\text{m}^2/\text{C}^2 (1.60 \times 10^{-19} \text{ C})^2 / (3.80 \times 10^{-10} \text{ m})^2 = 1.59 \times 10^{-7} \text{ N}$  (repulsion) (b)  $F_g = Gm_1m_2/r^2 = 6.67 \times 10^{-11} \text{ N}\cdot\text{m}^2/\text{kg}^2 (1.67 \times 10^{-27} \text{ kg})^2 / (3.80 \times 10^{-10} \text{ m})^2 = 1.59 \times 10^{-27} \text{ N}$  Chapter 23 Solutions - huilaaprendematematicas.com You may need to review vector addition in Chapter 3.

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2. 2 Chapter 23 \*Q23.6 Answer (c). Each charge produces field as if it were alone in the Universe. \*Q23.7 (i) According to the inverse square law, the field is one-fourth as large at twice the distance. The answer is (c),  $2 \times 36 \text{ cm} = 72 \text{ cm}$ . (ii) The field is four times stronger at half the distance away from the charge.

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### SERWAY: chapter 23

SOLUTIONS TO PROBLEMS Section 23.1 Properties of Electric Charges P23.1 (a) The mass of an average neutral hydrogen atom is  $1.007 \text{ u}$ . Losing one electron reduces its mass by a negligible amount, to  $1.007 \text{ u} (1.660 \times 10^{-27} \text{ kg}) - 9.11 \times 10^{-31} \text{ kg} = 1.67 \times 10^{-27} \text{ kg}$ .

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### Physics Solutions Manual Chapter 23

Physics 42 HW Set 1 Serway Solutions Chapter 23 You may need to review vector addition in Chapter 3 The electric field at point P can be found by adding the electric field vectors due to each of the two lower point charges: The electric field from a point charge is  $\vec{E} = kq/r^2 \hat{r}$ . As shown in the solution figure at

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### An object 2.00 cm high is placed 10.0 cm to the left of a ...

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