

ANSWER KEY

Unit 7 Review – Electrostatic Charges, Forces, and Fields

1. When an electron is added to a neutral atom, the atom becomes

- a. a negative ion
- b. more massive
- c. a positive ion
- d. heavier

2. A balloon is rubbed with a piece of fur. During the process, the balloon acquires a negative charge and the fur

- a. acquires a positive charge
- b. could either be positively charged or negatively charged, depending on how hard the balloon was rubbed
- c. remains neutral
- d. acquires a negative charge

3. Two charged objects attract each other with a certain force. If the charges on both objects are halved with no change in the distance between them, the force

- a. is reduced by half
- b. increases, but we can't say how much without knowing the distance between them
- c. becomes zero
- d. doubles

is reduced by one fourth

4. Sphere X carries a net charge and sphere Y is neutral. They are placed near each other on an insulated table. Which statement best describes the electrostatic force between them?

- a. There is no force between them since one is neutral.
- b. The force is attractive if X is charged positively and repulsive if X is charged negatively.
- c. There is a force of repulsion between them.

There is a force of attraction between them.



5. A piece of plastic has a net charge of $-14.00 \mu\text{C}$. How many more electrons than protons does this piece of plastic have? (Sketch not required)

$$\frac{14.00 \times 10^{-6}}{1.602 \times 10^{-19} \text{C}} \left| \frac{1 e^-}{1.602 \times 10^{-19} \text{C}} \right| = 8.739 \times 10^{13} \text{ electrons}$$

6. There is a $+3.0 \mu\text{C}$ charge at each of 3 corners of a square (each side $40. \text{ mm}$ long). What is the force on $+6.0 \mu\text{C}$ placed at the center of the square.

$$F = k \frac{q_1 q_2}{r^2} = 9 \times 10^9 \left(\frac{(3.0 \times 10^{-6})(6.0 \times 10^{-6})}{(28.28 \times 10^{-3} \text{ m})^2} \right) = 203 \text{ N} = 2.0 \times 10^2 \text{ N}$$

$$\theta = 45^\circ \text{ N of E, away from } +3 \mu\text{C charge}$$



Helpful Hints

$$F_e = \frac{kq_1q_2}{r^2}$$

$$F_e = EQ$$

$$E = k \frac{Q}{r^2}$$

$$E = \frac{V}{d}$$

$$k = 9.00 \times 10^9 \text{ Nm}^2/\text{C}^2$$

$$m_e = 9.11 \times 10^{-31} \text{ kg}$$

$$m_p = 1.67 \times 10^{-27} \text{ kg}$$

$$e = -1.60 \times 10^{-19} \text{ C}$$

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