

# 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 also  
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

a. 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.

d. 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. 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

$$F_e = \frac{k q_1 q_2}{r^2}$$

$$F_e = EQ$$

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

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

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

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

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

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

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