## Unit 7 Review - Electrostatic Charges, Forces, and Fields

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

#### .

- b. more massive
- c. a positive ion
- d. heavier
- A balloon is rubbed with a piece of fur. During the process, the balloon acquires a negative charge and the fur

#### 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
- 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
  - increases, but we can't say how much without knowing the distance between them
  - c. becomes zero
  - d. doubles

Is reduced by one fourth

#### Helpful Hints

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

$$F_e = EQ$$

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

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

$$Nm^2/C$$

$$m_c$$
 = 9.11 x  $10^{-31}$  kg

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

- 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.
  - 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.
  - I. There is a loose of attraction between them.





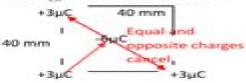
 A piece of plastic has a net charge of -14.00 μC. How many more electrons than protons does this piece of plastic have? (Sketch not required)

$$\frac{14.00 \times 10^{-6}}{1.602 \times 10^{-19}C} = 8.739 \times 10^{13} electrons$$

 There is a •3.0 μC charge at each of 3 corners of a square (each side 40, mm long). What is the force on •6.0 μC placed at the center of the square.

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

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



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