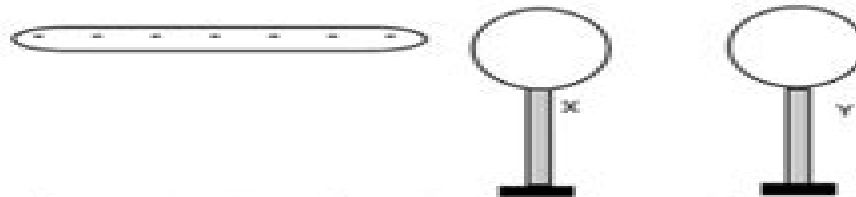


## AP Physics Test - Electric Fields

### Part I. Multiple Choice (5 points each)

Choose the one best answer to each of the following problems.



1 (AP).

Two metal spheres that are initially uncharged are mounted on insulating stands, as shown above. A negatively charged rubber rod is brought close to, but does not make contact with, sphere X. Sphere Y is then brought close to X on the side opposite to the rubber rod. Y is allowed to touch X and then is removed some distance away. The rubber rod is then moved far away from X and Y. What are the final charges on the spheres?

- |    | <u>Sphere X</u> | <u>Sphere Y</u> |
|----|-----------------|-----------------|
| a. | Zero            | Zero            |
| b. | Negative        | Negative        |
| c. | Negative        | Positive        |
| d. | Positive        | Negative        |
| e. | Positive        | Positive        |

2 (AP). From the electric field vector at a point, one can determine which of the following?

- The direction of the electrostatic force on a test charge of known sign at that point
  - The magnitude of the electrostatic force exerted per unit charge on a test charge at that point
  - The electrostatic charge at that point
- I only
  - III only
  - I and II only
  - II and III only
  - I, II, and III



3 (AP).

A rigid insulating rod, with two unequal charges attached to its ends, is placed in a uniform electric field  $E$  as shown above. The rod experiences a:

- net force to the left and a clockwise rotation
- net force to the left and a counterclockwise rotation
- net force to the right and a clockwise rotation
- net force to the right and a counterclockwise rotation
- rotation, but no net force

4 (AP). Two small spheres have equal charges  $q$  and are separated by a distance  $d$ . The force exerted on each sphere by the other has magnitude  $F$ . If the charge on each sphere is doubled and  $d$  is halved, the force on each sphere has magnitude:

- $F$
- $2F$
- $4F$
- $8F$
- $16F$

5. A point charge  $Q$  is placed on the  $x$  axis at  $x = 2.0$  m. A second point charge,  $-Q$ , is placed at  $x = 3.0$  m.

# 2009 Ap Physics B Multiple Choice Exam

**Greg Jacobs, Joshua Schulman**



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