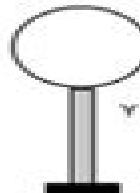
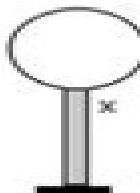


AP Physics Test - Electric Fields

Part I. Multiple Choice (5 points each)

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



1 (AP).

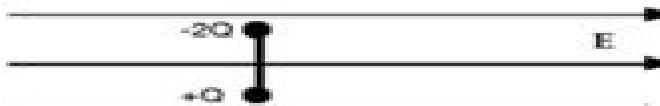
Two metal spheres that are initially uncharged are mounted on insulating stands, as shown above. A negatively charged rubber rod is brought close to, but does not make contact with, sphere X. Sphere Y is then brought close to X on the side opposite to the rubber rod. Y is allowed to touch X and then 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?

| Sphere X | Sphere Y |
|-------------|----------|
| 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?

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

- a. I only
- b. III only
- c. I and II only
- d. II and III only
- e. 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:

- a. net force to the left and a clockwise rotation
- b. net force to the left and a counterclockwise rotation
- c. net force to the right and a clockwise rotation
- d. net force to the right and a counterclockwise rotation
- e. rotation, but no net force

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

a. F b. $2F$ c. $4F$ d. $8F$ e. $16F$

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.

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Greg Jacobs,Joshua Schulman

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