

### Quiz #10: Electrostatics

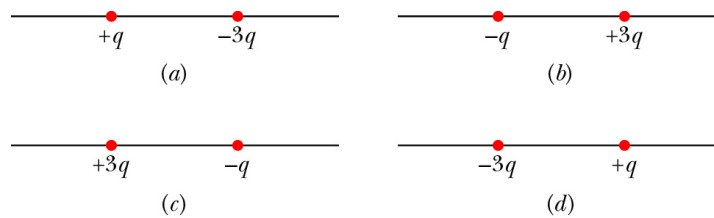
#### Problem 1 (2 points)

Complete the following statement: When a plastic rod is rubbed with animal fur, the rod becomes negatively charged as

- a) protons are transferred from the fur to the rod
- b) protons are transferred from the rod to the fur
- c) electrons are transferred from the fur to the rod
- d) electrons are transferred from the rod to the fur
- e) electrons are created on the surface of the rod

#### Problem 2 (3 points)

The figure below shows four situations in which charged particles are fixed in place on an axis. In which situation(s) is there a point to the **right** of the particles where an electron can be in equilibrium?



#### Problem 3 (5 points)

Two point charges are fixed in place in a right triangle as shown in the figure below. What is the magnitude and direction of the electric field at point P?

