

### Quiz 18.1E

Assume the three charges below are fixed in place.

- a) Find the magnitude and direction of the electric field (due to charges  $q_2$  and  $q_3$ ) in which charge  $q_1$  is immersed.
- b) Assume now  $q_1$  is free to move and has a mass of 37.0 grams. What is the magnitude and direction of the acceleration of  $q_1$ ?

