

Ch 19 HW Quiz #3A

Three charges are arranged in a line as shown below. q_4 and q_7 are fixed in place. q_1 is free to move left or right along the x-axis. Assume the electric force is the only relevant force.

- a) In which direction will charge q_1 move if it starts at rest?
- b) If q_1 has a mass of 34 grams, what will its speed be after moving 12 cm from its initial position, starting from rest?

