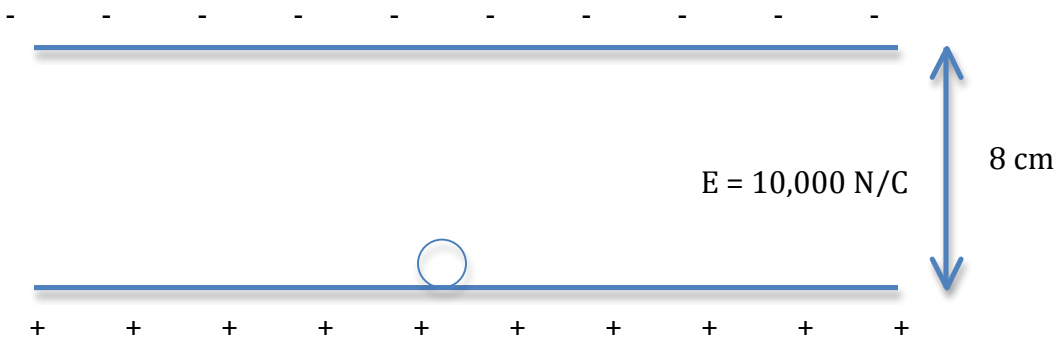


Static Electricity Practice Quiz.

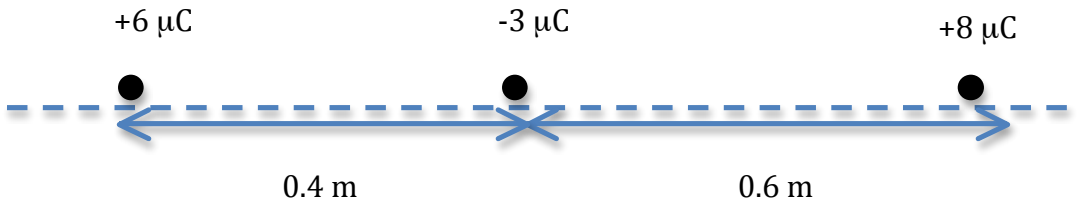
$$F = \frac{kq_1q_2}{r^2} \quad F = Eq$$

$$E = \frac{kq_2}{r^2}$$

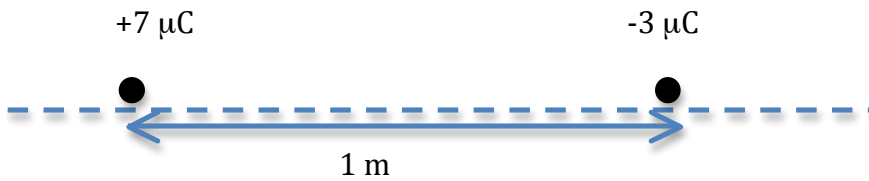
1. Find the velocity of the proton as it hits the opposite plate.



2. Find the net F on the $+2\mu\text{C}$ charge and the E field at that position.



3. Where along the line is the E field equal to 0?



4. Two identical spheres are separated by 20 cm and experience a force of 0.02 N. Find the number of excess electrons on each.

5. Find the net force on the $-4\mu\text{C}$ charge and the magnitude and direction of the E field at that point.

