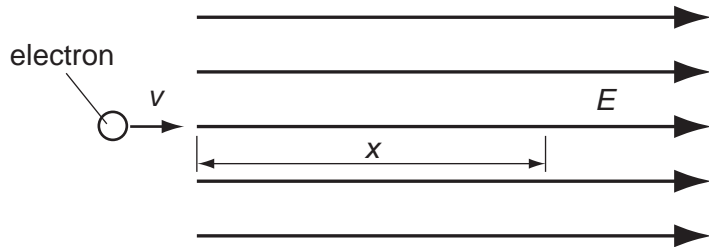


- 29 The diagram shows an electron, with charge e , mass m , and velocity v , entering a uniform electric field of strength E .



The direction of the field and the electron's motion are both horizontal and to the right.

Which expression gives the distance x through which the electron travels before it stops momentarily?

- A** $x = \frac{mv}{E}$ **B** $x = \frac{mv}{Ee}$ **C** $x = \frac{mv^2}{2E}$ **D** $x = \frac{mv^2}{2Ee}$

- 30 Which amount of charge, flowing in the given time, will produce the largest current?