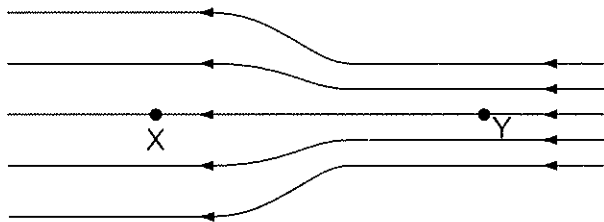


- 25 X and Y are two points on a field line in a region of electric field. The electric potentials at points X and Y are  $V_X$  and  $V_Y$  respectively.



An electron, initially at rest at X, accelerates towards Y.

The speed of the electron at Y is proportional to which expression below?

- A**  $\sqrt{(V_Y - V_X)}$       **B**  $V_Y - V_X$       **C**  $(V_Y - V_X)^2$       **D**  $V_Y^2 - V_X^2$

26 If the distance from a charged particle is doubled, how do the new values of field strength and