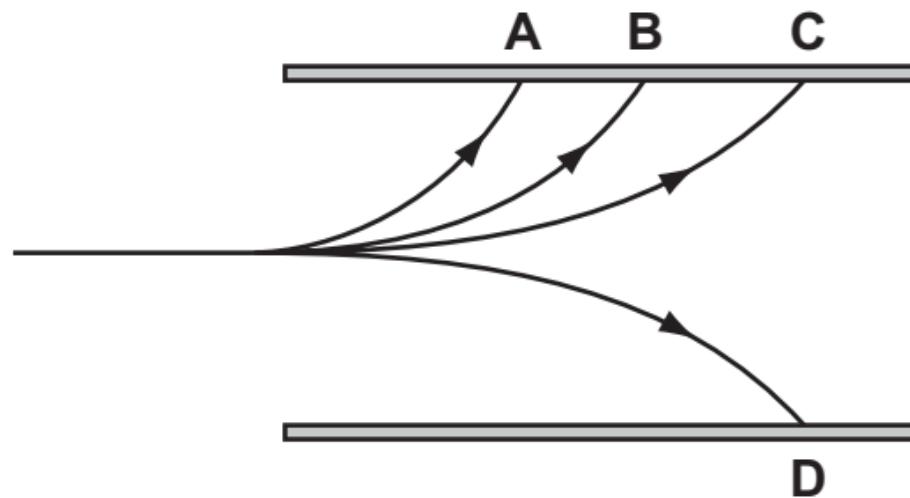


- 33 A single proton travelling with a constant horizontal velocity enters a uniform electric field between two parallel charged plates. In the diagram, **B** shows the path taken by the proton.

Which path is taken by a helium nucleus that enters the electric field at the same point and with the same velocity as the proton?



- 34 The graph shows the variation with length  $l$  of resistance  $R$  for two wires X and Y made from the