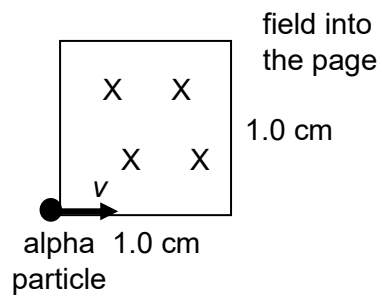


- 22** An alpha particle initially at rest is accelerated across a potential difference 250 V before entering a magnetic field. It enters the square uniform magnetic field of sides 1.0 cm with magnetic flux density 0.25 T at right angles from the corner of the field as shown below.



What is the angle of deflection of the velocity of the alpha particle?

- A**  $0^\circ$                       **B**  $33^\circ$                       **C**  $51^\circ$                       **D**  $180^\circ$