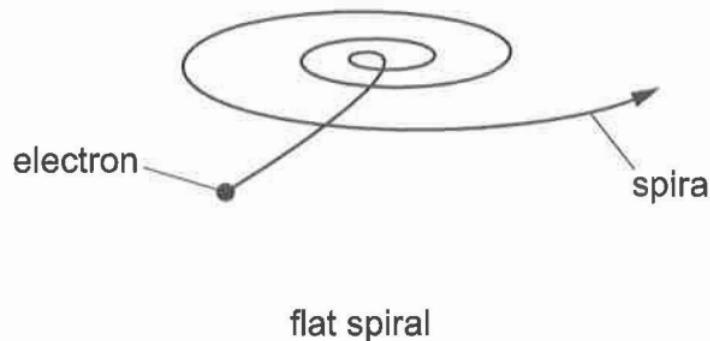
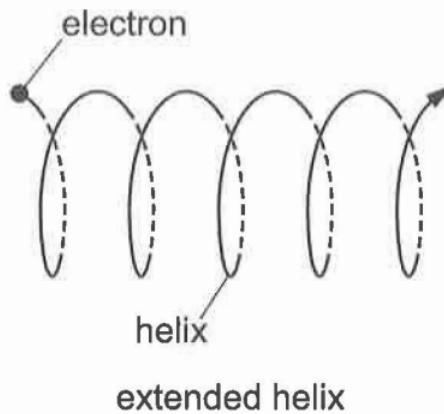


- 31 The force on an electron is  $7.3 \times 10^{-16}$  N when moving at an angle of  $23^\circ$  to a uniform magnetic field of magnetic field strength 0.084 T.



What is the speed of the electron and what is the shape of the path of the electron?

- A  $1.4 \times 10^5 \text{ m s}^{-1}$  in a helix
- B  $1.4 \times 10^5 \text{ m s}^{-1}$  in a spiral
- C  $2.1 \times 10^4 \text{ m s}^{-1}$  in a helix
- D  $2.1 \times 10^4 \text{ m s}^{-1}$  in a spiral