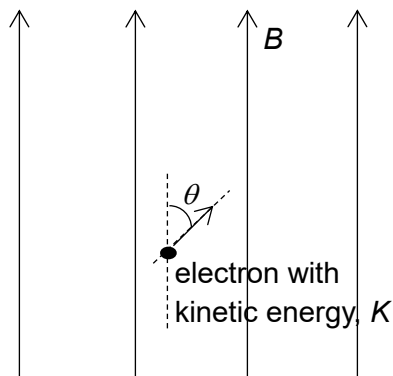


- 24 An electron is emitted at an angle θ to the direction of uniform magnetic field, B with kinetic energy K , as shown in the diagram below.



Which of the following describes the electron's subsequent trajectory?

- A It turns into the page and moves in a helical path upwards with radius proportional to \sqrt{K} .
- B It turns into the page and moves in a helical path upwards with radius proportional to K .
- C It turns out of the page and moves in a helical path upwards with radius proportional to \sqrt{K} .
- D It turns out of the page and moves in a helical path upwards with radius proportional to K .

