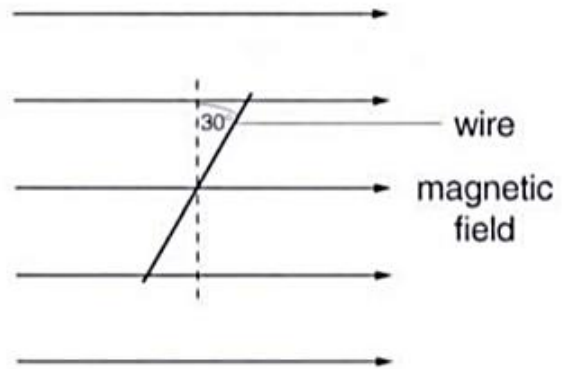
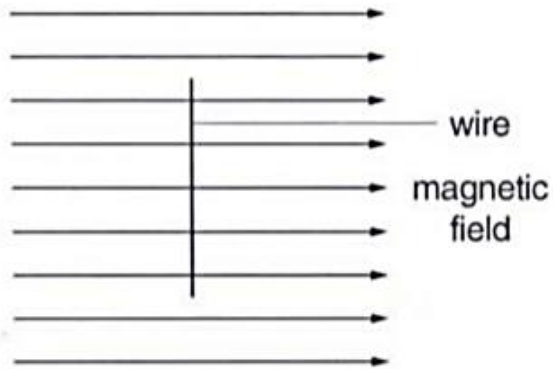


- 24** A straight, horizontal, current-carrying wire lies at right angles to a horizontal magnetic field. The field exerts a vertical force of 8.0 mN on the wire.

The wire is rotated, in its horizontal plane, through 30° as shown. The flux density of the magnetic field is halved.



What is the vertical force on the wire?

- A** 2.0 mN **B** 3.5 mN **C** 4.6 mN **D** 8.0 mN