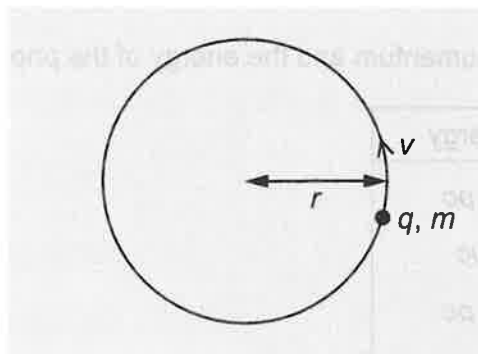


- 24** A particle of charge q and mass m moves with speed v in a circle of radius r . The particle travels in a uniform magnetic field of flux density B acting at right angles to the plane of the motion of the particle.



Which expression is correct about the time T for the particle to complete one revolution?

- A** T is independent of m .
- B** T is independent of r .
- C** T is proportional to q .
- D** T is proportional to B .