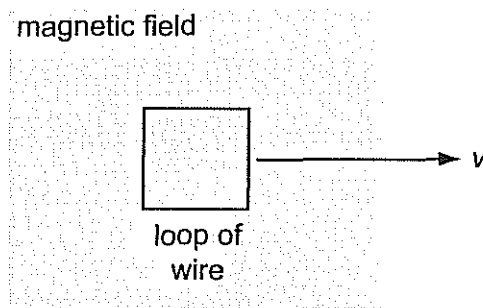10 A square loop of wire is placed in a region of uniform magnetic field. The direction of the field is perpendicular to the plane of the loop of wire.

magnetic field

loop of
wire

The loop is pulled out of the field at a uniform speed v. During this operation, the loop remains in the same plane.

Which graph shows how the total work W done in pulling the loop out of the field depends on the speed v?

A   B   C   D