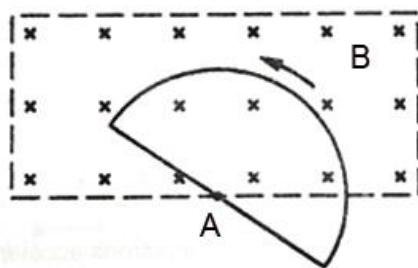


- 25** A uniform magnetic field of flux density B is directed perpendicularly into the plane everywhere within a rectangular region as shown.

A metal frame in the shape of a semi-circle is rotated anti-clockwise, at a constant angular speed, on the plane of the page about an axis A. The axis A is perpendicular to the page at the edge of the field and directed through the centre of the straight-line portion of the frame.



Which of the following graphs best represent the variation with time t of the induced current I in the metal frame?

