1. The diagrams show a conducting ring that is placed in a uniform magnetic field that is changing at a constant rate, as shown by the graph. Deduce the nature and direction of the induced current in each case.







NOTE: An emf induced by a force moving a conductor in a magnetic field (motional emf) and an emf induced by a time-changing flux (Faraday's law) are really the same phenomena explained in two different ways.



c) Determine the magnitude of the induced current.

d) Determine the direction of the induced current. (Try both methods.)