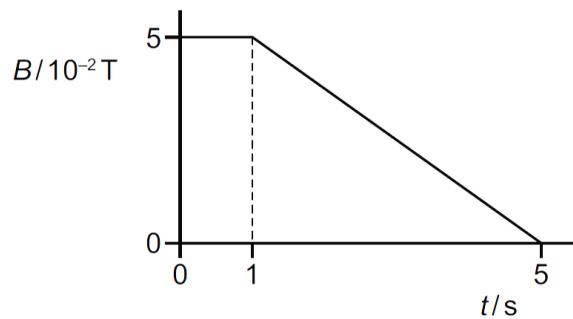


- 26** A 120 turn coil of area  $5.0 \times 10^{-4} \text{ m}^2$  is placed in a magnetic field of strength  $5.0 \times 10^{-2} \text{ T}$ . The magnetic flux density  $B$  is then varied as shown.



What is the induced electromotive force when  $t = 3 \text{ s}$ ?

- A**  $6.25 \mu\text{V}$       **B**  $600 \mu\text{V}$       **C**  $750 \mu\text{V}$       **D**  $1250 \mu\text{V}$