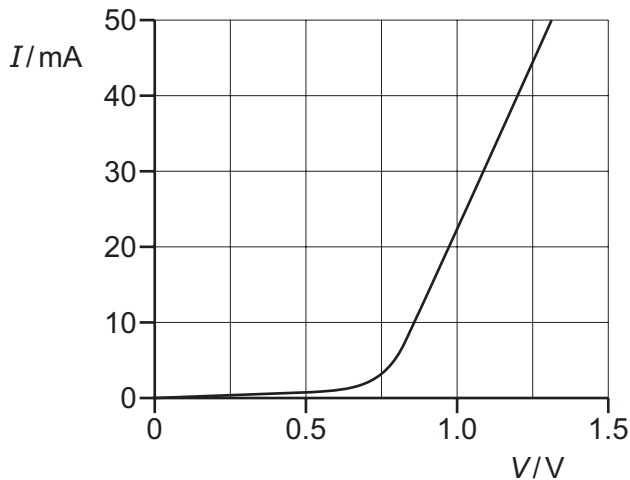
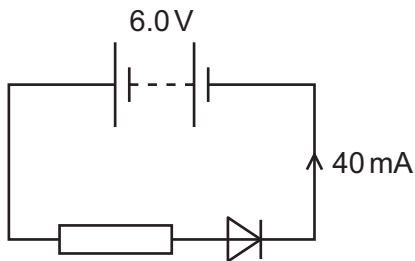


- 34** A fixed resistor and a diode are connected in series to a battery of electromotive force (e.m.f.)  $6.0\text{ V}$  and negligible internal resistance. The graph shows the variation with potential difference (p.d.)  $V$  of the current  $I$  for the diode.



The current in the diode is  $40\text{ mA}$ .

What is the resistance of the fixed resistor?

- A**  $30\ \Omega$       **B**  $120\ \Omega$       **C**  $150\ \Omega$       **D**  $180\ \Omega$