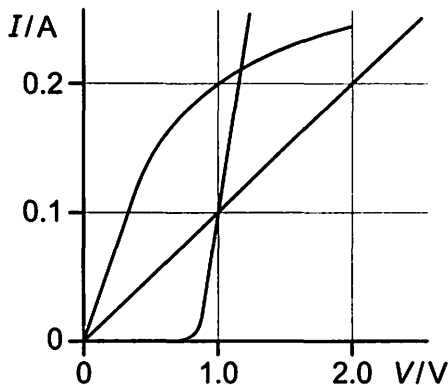


- 23 The graph shows the I - V characteristics of three electrical components, a diode, a filament lamp and a resistor, plotted on the same axes.



Which statement is correct?

- A The resistance of the diode equals that of the filament lamp at about 1.2 V.
- B The resistance of the diode is constant above 0.8 V.
- C The resistance of the filament lamp is twice that of the resistor at 1.0 V.
- D The resistance of the resistor equals that of the filament lamp when $V = 0.8$ V.

24 The resistivity of a piece of wire of length 1 m and diameter 0.8 mm is $5 \times 10^{-8} \Omega \text{ m}$.