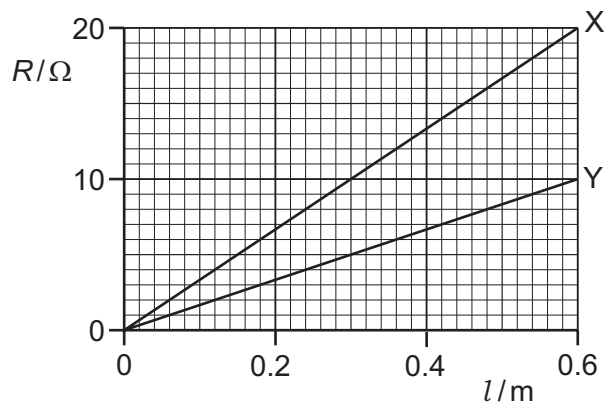


- 34** The graph shows the variation with length  $l$  of resistance  $R$  for two wires X and Y made from the same material.



What does the graph show?

- A** cross-sectional area of X =  $2 \times$  cross-sectional area of Y
- B** resistivity of X =  $2 \times$  resistivity of Y
- C** when equal lengths of X and Y are connected in series to a battery, power in X =  $2 \times$  power in Y
- D** when equal lengths of X and Y are connected in parallel to a battery, current in X =  $2 \times$  current in Y

**Space for working**