

34 Two wires have the same length and the same resistance. Wire X is made of a metal of resistivity $1.7 \times 10^{-8} \Omega\text{m}$ and wire Y is made of a metal of resistivity $5.6 \times 10^{-8} \Omega\text{m}$.

The diameter of wire X is 0.315 mm.

What is the diameter of wire Y?

A 0.17 mm

B 0.33 mm

C 0.57 mm

D 1.0 mm

35 A cell has a constant electromotive force.