

Name:

Number:

SOLVE THESE QUESTIONS

Question 1

A wire, 4.00 m long and 6 mm in diameter, has a resistance of 15 m Ω . A potential difference of 23 V is applied between the ends of the wire. Calculate **(i)** the current passing through the wire and **(ii)** the conductivity of the wire.

Question 2

The power dissipation rate through an 8 Ω -resistor is 2.0 W. Calculate the potential difference across the resistor.