

- (d) (i) Calculate a value for the gradient of the graph and include a suitable unit. [3]

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- (ii) Hence find the resistivity of the wire, given that its cross sectional area is $5.73 \times 10^{-8} \text{ m}^2$. [2]

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- (e) (i) Write down the intercept of your graph, and by taking its uncertainty to be one small square of the graph paper, calculate the percentage uncertainty in the intercept. [2]

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- (ii) Calculate the internal resistance of the cell. [1]

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