

- (c) The temperature coefficient of resistance, α , of copper can be found using the equation:

$$R_{\theta} = \alpha R_0 \theta + R_0$$

where:

R_0 = Resistance at 0 °C

R_{θ} = Resistance at temperature θ °C

θ = Temperature / °C

α = Temperature coefficient of resistance

Explain whether or not your graph is in agreement with the above equation. [3]

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- (d) (i) Calculate the maximum and minimum gradients for your graph. [3]

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- (ii) Hence determine the mean gradient and its **percentage** uncertainty. [2]

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