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On seeing the graph, Frank says that the bulb "clearly exhibits ohmic behaviour". Do you agree with his statement? Explain your answer.

[2 marks]



1

0

Explain the shape of the above graph for the filament bulb. Why does the current through the bulb depend on the p.d. across it in this way?

[3 marks]



The below graph shows the current-voltage characteristics of two different fixed resistors.





Resistor 1	=	Ω
Resistor 2	=	Ω

[4 marks]



2

1

0

Both resistors may be described as being *ohmic*. Explain the meaning of this statement.

[3 marks]



used to plot the above graph.

[3 marks]



Describe a suitable method for collecting the current-voltage data from which the above graph was plotted.

## [3 marks]

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