

- 1 Describe the difference between an alternating current (a.c.) and a direct current (d.c.).

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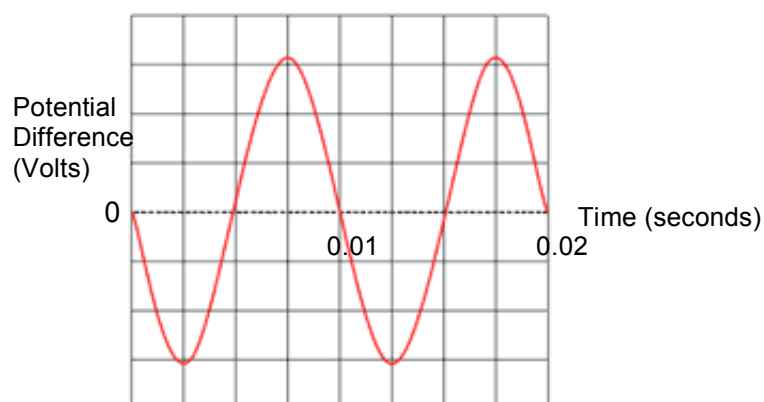
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(2 marks)

- 1 (a) An oscilloscope can be used to display the changes in potential difference over time for a supply of electricity. The diagram shows the display from an oscilloscope for a supply of alternating current.



- 1 (a) (ii) Use the graph to determine the period of oscillation for the supply.

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(1 mark)

- 1 (a) (iii) Use the graph to calculate the frequency of the supply as shown by the oscilloscope trace.

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Frequency Hz
(2 marks)

- 1 (a) (iv) What is the frequency of mains electricity supply in the UK?

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(1 mark)

(Total 6 marks)