

- (e) Does your graph confirm the relationship given in (a)?  
Explain your answer.

[3]

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- (f) (i) Use your graph to determine a value for  $\lambda$ . Remember to include units with your answer.

[3]

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- (ii) What does the intercept on the  $y$ -axis of your graph represent?

[1]

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- (iii) From the graph, determine the time taken for the initial amplitude of oscillation,  $A_0$ , to halve. Show your working clearly.

[2]

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