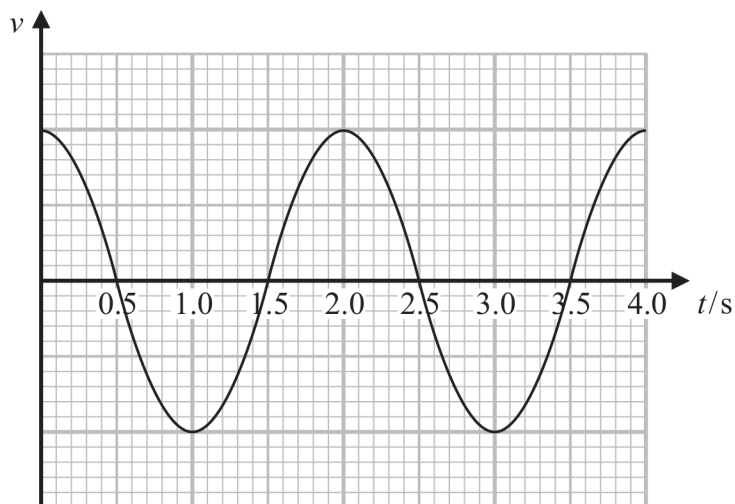


14 A student set up a simple pendulum. The student used a velocity sensor connected to a data logger to record the velocity of the pendulum bob.

(a) The graph shows how the velocity of the bob varied with time.



(i) Add a line to the graph to show how the displacement of the bob varied with time during the same time interval. (2)

(ii) Determine the length of the simple pendulum. (3)

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Length of simple pendulum = .....

(b) In some experiments, it is an advantage to use a data logger rather than other measuring instruments.

Describe when the use of a data logger is an advantage. (2)

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(Total for Question 14 = 7 marks)

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