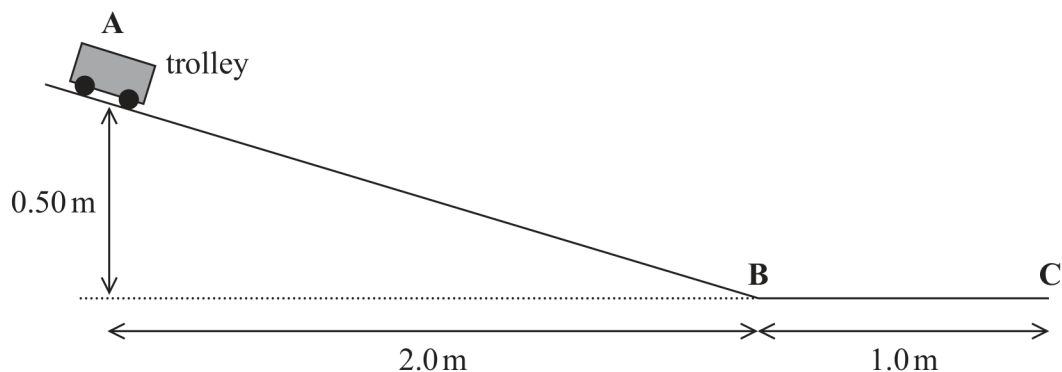


9
Turn over ➤



- 12 A trolley accelerates from rest at point A, down a straight track to point B. The trolley then continues along a horizontal track to point C, as shown.



The effects of air resistance and friction are negligible.

- (a) Show that the trolley reaches point B with a speed of about 3 m s^{-1} .

(3)

- (b) Determine the time taken by the object to move from point A to point C.

(4)

Time taken =

(Total for Question 12 = 7 marks)

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