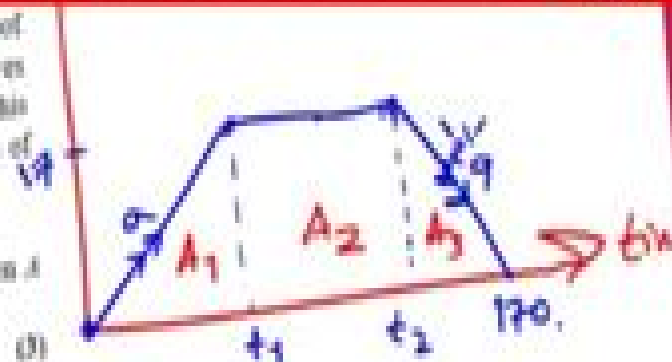


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5. A car travelling along a straight horizontal road takes 170s to travel between two sets of traffic lights at A and B which are 2125m apart. The car starts from rest at A and moves with constant acceleration until it reaches a speed of  $17 \text{ ms}^{-1}$ . The car then maintains this speed before moving with constant deceleration, coming to rest at B. The magnitude of the deceleration is twice the magnitude of the acceleration.

- (a) Sketch, in the space below, a speed-time graph for the motion of the car between A and B.



- (b) Find the deceleration of the car.

Trapezium:  $\frac{170 + (t_2 - t_1)}{2} \times 17 = 2125$

(i)  $t_2 - t_1 = 80$

$A_3$ :  $u = 17, v = 0, t = 170 - t_2, a = -\frac{1}{2}a$

$v = u + at$

$0 = 17 - \frac{1}{2}a(170 - t_2)$   
 $170 - \frac{17}{\frac{1}{2}a} = t_2$

$u = 0, v = 17, t = t_1, a = ?$   
 $v = u + at \quad \therefore a = 17/t_1$   
 $17 = 0 + at_1 \quad t_1 = 17/a$

$\Rightarrow (170 - \frac{17}{\frac{1}{2}a}) - \frac{17}{a} = 80$   
 $\Rightarrow a = 0.567$

5

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**Susan Hooker, Keith Pledger, Michael  
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