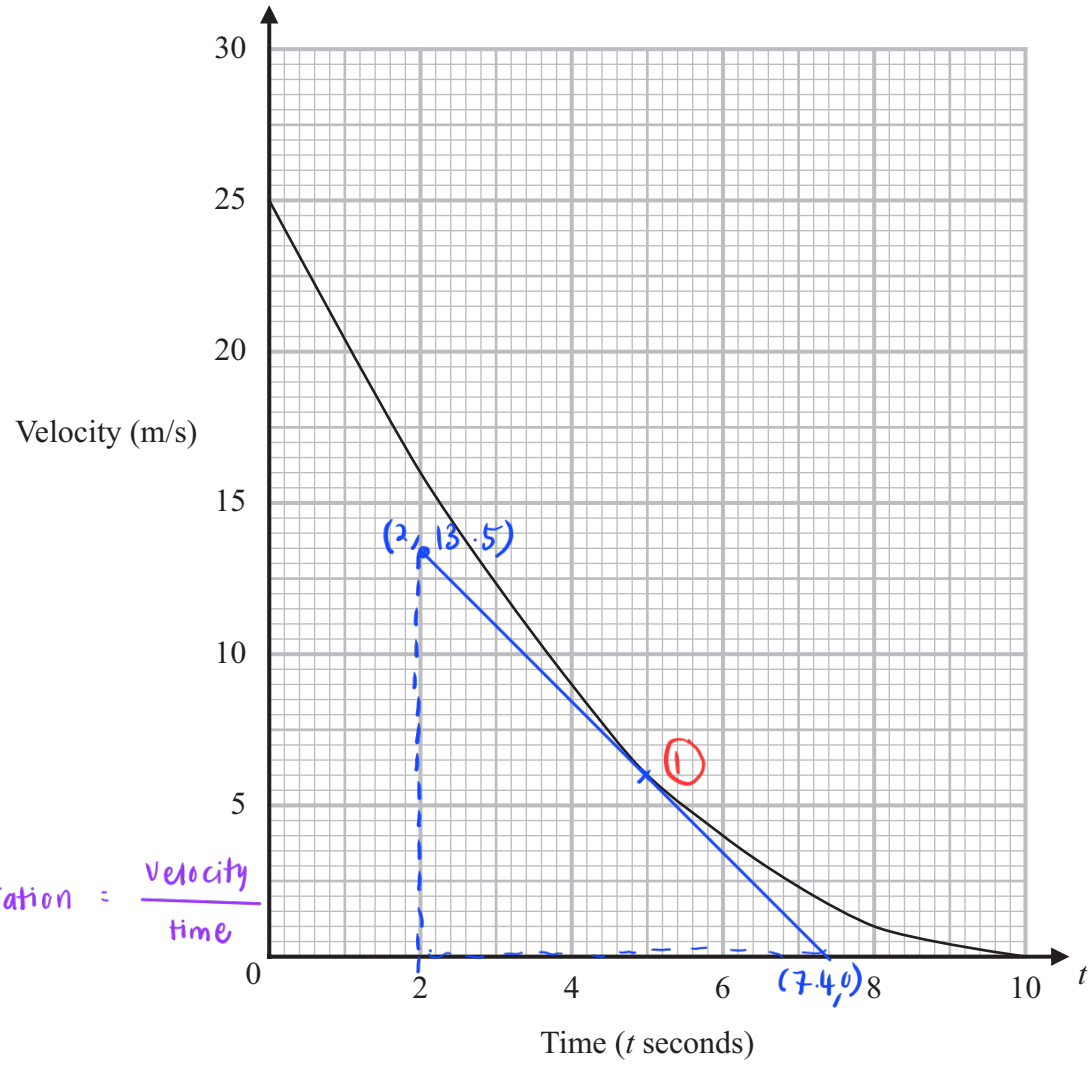
1 The graph shows the velocity of a car, in metres per second, t seconds after it starts to slow down.



(b) Work out an estimate for the distance the car travels in the first 6 seconds after it starts to slow down.
Use 3 strips of equal width.

distance = area under the graph

from $t=0$ to $t=2$: $\frac{1}{2} \times 2 \times (25+16) = 41$ m (1)

from $t=2$ to $t=4$: $\frac{1}{2} \times 2 \times (16+9) = 25$ m

from $t=4$ to $t=6$: $\frac{1}{2} \times 2 \times (9+4) = 13$ m

(1)

Total distance travelled = $(41 + 25 + 13) = 79$ m (1)

79 ..... m

(3)

(Total for Question 1 is 3 marks)