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Section B

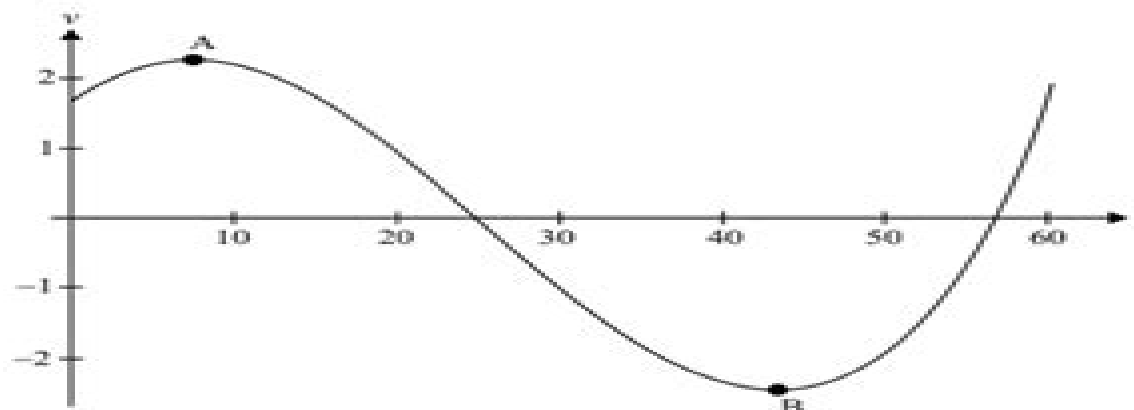
Answer **all** questions in the answer booklet provided. Please start each question on a new page.

9. [Maximum mark: 14]

A body moves in a straight line such that its velocity, $v \text{ ms}^{-1}$, after t seconds is given by

$$v = 2 \sin\left(\frac{t}{10} + \frac{\pi}{5}\right) \csc\left(\frac{t}{30} + \frac{\pi}{4}\right) \text{ for } 0 \leq t \leq 60.$$

The following diagram shows the graph of v against t . Point A is a local maximum and point B is a local minimum.



- (a)
 - (i) Determine the coordinates of point A and the coordinates of point B.
 - (ii) Hence, write down the maximum speed of the body. [5]
- (b) The body first comes to rest at time $t = t_1$. Find
 - (i) the value of t_1 ;
 - (ii) the distance travelled between $t = 0$ and $t = t_1$;
 - (iii) the acceleration when $t = t_1$. [6]
- (c) Find the distance travelled in the first 30 seconds. [3]



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Judd E. Hollander



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