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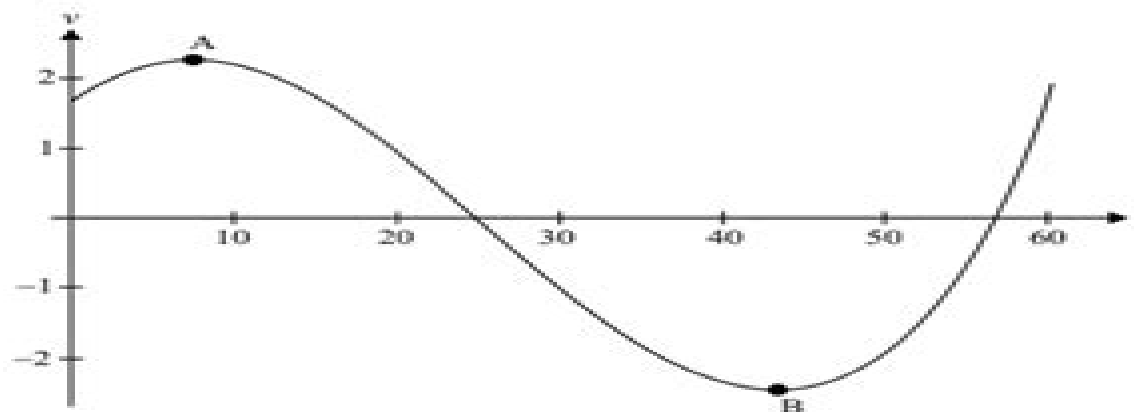
Section B

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 ms^{-1}, after t seconds is given by

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

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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