

## HL Paper 2

A particle can move along a straight line from a point  $O$ . The velocity  $v$ , in  $\text{ms}^{-1}$ , is given by the function  $v(t) = 1 - e^{-0.05t^2}$  where time  $t \geq 0$  is measured in seconds.

- Write down the first two times  $t_1, t_2 > 0$ , when the particle changes direction. [2]
- Find the time  $t < t_2$  when the particle has a maximum velocity. [4]
  - Find the time  $t < t_2$  when the particle has a minimum velocity. [2]
- Find the distance travelled by the particle between times  $t = t_1$  and  $t = t_2$ . [2]

Consider the function  $f(x) = x^3 - 3x^2 - 9x + 10, x \in \mathbb{R}$ .

- Find the equation of the straight line passing through the maximum and minimum points of the graph  $y = f(x)$ . [4]
- Show that the point of inflexion of the graph  $y = f(x)$  lies on this straight line. [2]

Let  $f(x) = x^4 + 0.2x^3 - 5.8x^2 - x + 4, x \in \mathbb{R}$ .

The domain of  $f$  is now restricted to  $[0, a]$ .

Let  $g(x) = 2 \sin(x - 1) - 3, -\frac{\pi}{2} + 1 \leq x \leq \frac{\pi}{2} + 1$ .

- Find the solutions of  $f(x) > 0$ . [3]
- For the curve  $y = f(x)$ . [5]
  - Find the coordinates of both local minimum points.
  - Find the  $x$ -coordinates of the points of inflexion.
- Write down the largest value of  $a$  for which  $f$  has an inverse. Give your answer correct to 3 significant figures. [2]
  - For this value of  $a$  sketch the graphs of  $y = f(x)$  and  $y = f^{-1}(x)$  on the same set of axes, showing clearly the coordinates of the end points of each curve. [2]

# M12 Ms Mathematic Hl Paper2 Tz1

**S Ben Porath**



**M12 Ms Mathematic HI Paper2 Tz1:**

## **M12 Ms Mathematic Hl Paper2 Tz1** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has been much more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **M12 Ms Mathematic Hl Paper2 Tz1**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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