

HL Paper 2

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

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

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

- a. Find the equation of the straight line passing through the maximum and minimum points of the graph $y = f(x)$. [4]
- b. 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 $g(x) = 2 \sin(x - 1) - 3, -\frac{\pi}{2} + 1 \leq x \leq \frac{\pi}{2} + 1$.

- a. Find the solutions of $f(x) > 0$. [3]
- b. For the curve $y = f(x)$. [5]
- (i) Find the coordinates of both local minimum points.
- (ii) Find the x -coordinates of the points of inflexion.
- c. i. Write down the largest value of a for which f has an inverse. Give your answer correct to 3 significant figures. [2]
- ii. 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]

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