

Subject - Math AA(Standard Level)
Topic - Calculus
Year - May 2021 - Nov 2022
Paper -2
Questions

Question 1

[Maximum mark: 7]

The displacement, in centimetres, of a particle from an origin, O, at time t seconds, is given by $s(t) = t^2 \cos t + 2t \sin t$, $0 \leq t \leq 5$.

- (a) Find the maximum distance of the particle from O. [3]
- (b) Find the acceleration of the particle at the instant it first changes direction. [4]

Question 2

[Maximum mark: 15]

Consider the function f defined by $f(x) = 90e^{-0.5x}$ for $x \in \mathbb{R}^+$.

The graph of f and the line $y = x$ intersect at point P.

- (a) Find the x -coordinate of P. [2]

The line L has a gradient of -1 and is a tangent to the graph of f at the point Q.

- (b) Find the exact coordinates of Q. [4]
- (c) Show that the equation of L is $y = -x + 2 \ln 45 + 2$. [2]

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