

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]

Maths Studies Sl Past Paper 2013

Kathleen Armour



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Maths Studies Sl Past Paper 2013 Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Maths Studies Sl Past Paper 2013**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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