

Subject – Math (Standard Level)
Topic – Calculus
Year – Nov 2011 – Nov 2019
Paper -2

Question 1

(Maximum mark: 15)

Let $f(x) = \frac{20x}{e^{0.5x}}$, for $0 \leq x \leq 20$.

- (a) Sketch the graph of f . *[3 marks]*
- (b) (i) Write down the x -coordinate of the maximum point on the graph of f .
(ii) Write down the interval where f is increasing. *[3 marks]*
- (c) Show that $f'(x) = \frac{20-6x}{e^{0.5x}}$. *[5 marks]*
- (d) Find the interval where the rate of change of f is increasing. *[4 marks]*

Math Sl 20paper 1

Xiang Xie



Math Sl 20paper 1:

Adopting the Melody of Term: An Emotional Symphony within **Math Sl 20paper 1**

In a world used by screens and the ceaseless chatter of immediate interaction, the melodic splendor and mental symphony created by the written term often diminish into the back ground, eclipsed by the persistent noise and interruptions that permeate our lives. However, nestled within the pages of **Math Sl 20paper 1** a marvelous literary treasure full of raw thoughts, lies an immersive symphony waiting to be embraced. Crafted by a masterful composer of language, that fascinating masterpiece conducts viewers on an emotional trip, skillfully unraveling the concealed tunes and profound affect resonating within each carefully constructed phrase. Within the depths of this poignant assessment, we will examine the book is key harmonies, analyze its enthralling writing type, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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