

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

Question 1

(Maximum mark: 13)

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

Daniel F McAuley



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problem solving scenarios Each chapter addresses specific topics including fractals fractional differentials integral equations elastic beam problems and mathematical modeling and analysis of electrical circuits These diverse subjects showcase the principle s versatility in solving complex issues that go beyond theoretical mathematics By highlighting Banach s contraction principle as a lasting legacy the book not only honours past mathematical achievements but also anticipates future innovations in industrial and applied mathematics It underscores the enduring relevance of the principle ensuring its continued prominence in mathematical discourse and its pivotal role in driving advancements across the field This comprehensive exploration catalyzes inspiring future developments in mathematical research

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Pictographs

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- Chapter 5: Conclusion

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