

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]*

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