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

[3 marks]

[3 marries]

[5 marks]

[4 marks]

Question 1

[Maximum mark: 15]

Let
$$f(x) = \frac{20x}{e^{5.2x}}$$
, for $0 \le x \le 20$.

- (a) Sketch the graph of f.
- (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.
- (c) Show that $f'(x) = \frac{20-6x}{e^{6x}}$.
- (d) Find the interval where the rate of change of f is increasing.

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Jiyuan Zhang

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