

Subject - Math AA(Higher Level)
Topic - Calculus
Year - May 2021 - Nov 2022
Paper -3
Answers

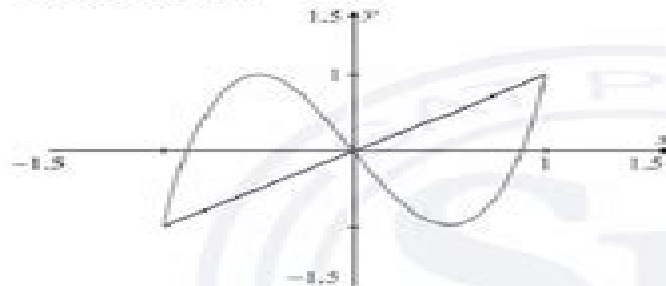
Question 1

(a) correct graph of $y = f_1(x)$

A1

correct graph of $y = f_2(x)$

A1



[2 marks]

(b) (i) graphical or tabular evidence that n has been systematically varied
eg $n = 3$, 1 local maximum point and 1 local minimum point
 $n = 5$, 2 local maximum points and 2 local minimum points
 $n = 7$, 3 local maximum points and 3 local minimum points

M1

(A1)

$\frac{n-1}{2}$ local maximum points

A1

(ii) $\frac{n-1}{2}$ local minimum points

A1

Note: Allow follow through from an incorrect local maximum formula expression.

[4 marks]

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