

Paper Reference 9FM0/3A
Pearson Edexcel
Level 3 GCE

Further Mathematics
Advanced
PAPER 3A: Further Pure Mathematics 1

Wednesday 19 June 2024 – Afternoon

Diagram Booklet

THIS DIAGRAM BOOKLET MUST BE RETURNED
WITH THE ANSWER BOOKLET AT THE END OF THE
EXAMINATION.

In the boxes below, write your name, centre number and
candidate number.

Surname					
Other names					
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INSTRUCTIONS

There may be spare copies of some diagrams in case you need them.

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Spare Copies

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Question 1

x	y
2	1·946
2·5	2·225
3	
3·5	2·725
4	2·944
4·5	3·146
5	3·332

$$\left[\begin{array}{l} \text{The Taylor series expansion of } f(x) \text{ about } x = a \text{ is given by} \\ f(x) = f(a) + (x - a)f'(a) + \frac{(x - a)^2}{2!} f''(a) + \dots + \frac{(x - a)^r}{r!} f^{(r)}(a) + \dots \end{array} \right]$$

Question 1

x	y
2	1.946
2.5	2.225
3	
3.5	2.725
4	2.944
4.5	3.146
5	3.332