

AS Level Further Mathematics B (MEI)

Y414/01 Numerical Methods

Printed Answer Booklet

Time allowed: 1 hour 15 minutes

You must have:

- Question Paper Y414/01 (inside this document)
- the Formulae Booklet for Further Mathematics B (MEI)
- a scientific or graphical calculator

AB



Please write clearly in black ink. **Do not write in the barcodes.**

Centre number

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Candidate number

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First name(s)

Last name

INSTRUCTIONS

- Use black ink. You can use an HB pencil, but only for graphs and diagrams.
- Write your answer to each question in the space provided in the **Printed Answer Booklet**. If you need extra space use the lined pages at the end of the Printed Answer Booklet. The question numbers must be clearly shown.
- Answer **all** the questions.
- Where appropriate, your answer should be supported with working. Marks might be given for using a correct method, even if your answer is wrong.
- Give your final answers to a degree of accuracy that is appropriate to the context.

INFORMATION

- This document has **12** pages.

ADVICE

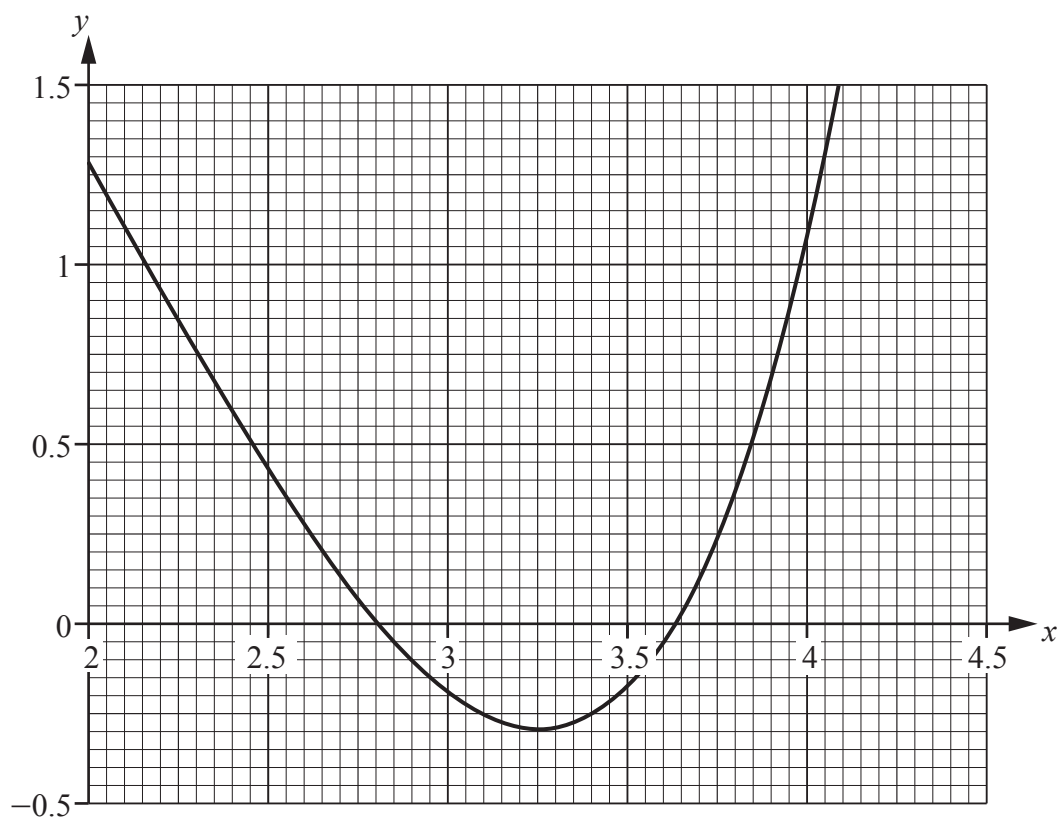
- Read each question carefully before you start your answer.

1(a)	x	y	Δy	$\Delta^2 y$	$\Delta^3 y$
	0	0.8			
	1	0.7			
	2	0.1			
	3	11.3			
	4	70.5			
	5	250.6			
1(b)					
2(a)					
2(b)					

2(c)**3(a)**

3(b)	
3(c)	

4(a)



4(b)

4(c)	
4(d)	
4(e)	
4(f)	
4(g)	

5(a)

h	approximation to $f'(5)$
0.1	
0.01	
0.001	
0.0001	

5(b)**5(c)****5(d)**

6(a)	
	6(b)(i)
6(b)(ii)	

6(b)(iii)	
6(c)	
6(d)	

7(a)	
7(b)	
7(c)	
7(d)	
7(e)	

[illegible]

[illegible]

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