



Oxford Cambridge and RSA

Friday 17 June 2022 – Afternoon

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



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)	

1(b)	

1(c)	
2(a)	
2(b)	
2(c)	

3(a)	
3(b)	
3(c)	

4(a)	
4(b)(i)	
4(b)(ii)	
4(c)	
4(d)	

4(g)	
5(a)	
5(b)	

5(c)	
5(d)	

6(a)

n	M_n	difference	ratio
1			
2			
4	0.2795859	-0.0027349	0.2691687
8	0.2788869	-0.0006989	0.2555667
16	0.2787112	-0.0001758	0.2514659
32	0.2786672	-4.401E-05	0.2503719
64	0.2786561	-1.101E-05	0.2500933

6(b)

6(c)

7(a)	
7(b)	
	7(c)

7(d)	
7(e)	
7(f)	

