



Oxford Cambridge and RSA

Tuesday 4 June 2024 – Afternoon

A Level Mathematics A

H240/01 Pure Mathematics

Printed Answer Booklet

Time allowed: 2 hours



You must have:

- Question Paper H240/01 (inside this document)
- 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 page 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 non-exact numerical answers correct to **3** significant figures unless a different degree of accuracy is specified in the question.
- The acceleration due to gravity is denoted by gms^{-2} . When a numerical value is needed use $g = 9.8$ unless a different value is specified in the question.

INFORMATION

- The total mark for this paper is **100**.
- The marks for each question are shown in brackets [].
- This document has **16** pages.

ADVICE

- Read each question carefully before you start your answer.

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

2(a)(i)	
2(a)(ii)	
2(b)	

3(a)			
3(b)(i)	$x^2 = 3x$	<input type="text"/>	$x = 3$
3(b)(ii)	$x > 4$	<input type="text"/>	$x^3 > 64$
3(b)(iii)	$x^\circ = 45^\circ$	<input type="text"/>	$\tan x^\circ = 1$
3(c)			

4(a)	
4(b)	
4(c)	

[illegible]

6(a)	
6(b)	
6(c)	

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

8(a)	
8(b)(i)	
8(b)(ii)	
8(c)(i)	
8(c)(ii)	

9(a)(i)	
9(a)(ii)	
9(b)	
9(c)	

10

11(a)	
11(b)	

11(c)(i)	
	11(c)(ii)

[illegible]

[illegible]

[illegible]

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