

Thursday 15 May 2025 – Afternoon

AS Level Mathematics B (MEI)

H630/01 Pure Mathematics and Mechanics

Printed Answer Booklet

Time allowed: 1 hour 30 minutes

You must have:

- Question Paper H630/01 (inside this document)
- 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 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 your final answers to a degree of accuracy that is appropriate to the context.
- The acceleration due to gravity is denoted by $g \text{ m s}^{-2}$. When a numerical value is needed use $g = 9.8$ unless a different value is specified in the question.

INFORMATION

- This document has **16** pages.

ADVICE

- Read each question carefully before you start your answer.

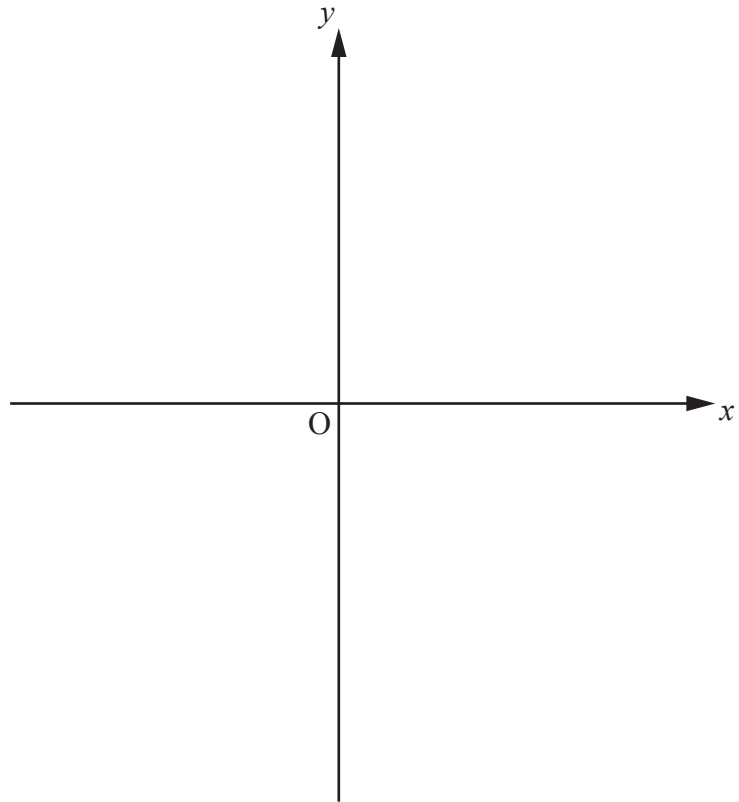
1	
2	

[illegible]

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

6

7(a)



7(b)

7(c)

8(a)**8(b)**

9(a)	
9(b)	

10(a)	
10(b)	
10(c)	

11(a)	
11(b)	

11(c)	

DO NOT WRITE IN THIS SPACE

12(a)	
12(b)(i)	
	$a =$
	$k =$
12(b)(ii)	
12(c)	

12(d)	
12(e)	
12(f)	

13(a)		
	13(b)	
(answer space continued on next page)		

[illegible]

[illegible]

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