



Oxford Cambridge and RSA

Friday 6 June 2025 – Afternoon

A Level Further Mathematics B (MEI)

Y431/01 Mechanics Minor

Printed Answer Booklet

Time allowed: 1 hour 15 minutes



You must have:

- Question Paper Y431/01 (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 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 **12** pages.

ADVICE

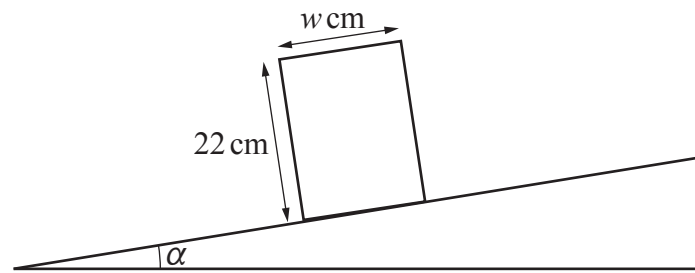
- Read each question carefully before you start your answer.

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

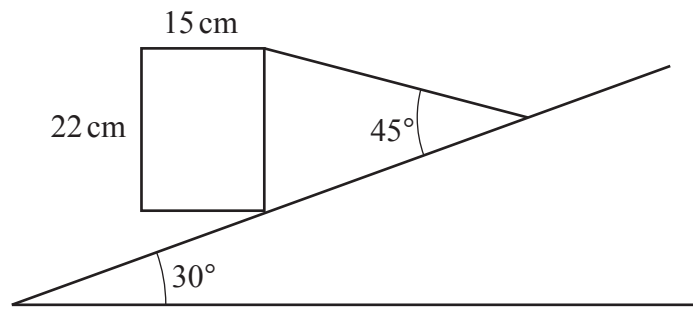
2(a)(i)	
2(a)(ii)	
2(b)	
2(c)	
2(d)	

3(a)	
3(b)	
3(c)	
3(d)	
4(a)	

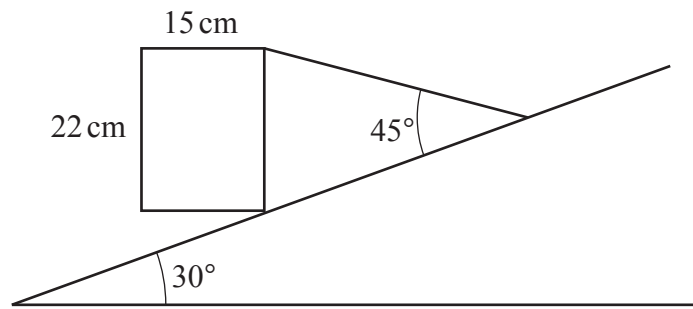
4(b)

**DO NOT WRITE IN THIS SPACE**

4(c)



4(d)



5(a)	
5(b)	

5(c)

Tension in wire attached at O:

Tension in wire attached at C:

5(d)**5(e)**

6(a)	
6(b)	

[illegible]

[illegible]

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