

OCR

Oxford Cambridge and RSA

Accredited

A Level Further Mathematics B (MEI)

Y431 Mechanics Minor

Printed Answer Booklet

Date – Morning/Afternoon

Time allowed: 1 hour 15 minutes

OCR supplied materials:

- Printed Answer Booklet
- Formulae Further Mathematics B (MEI)

You must have:

- Printed Answer Booklet
- Formulae Further Mathematics B (MEI)
- Scientific or graphical calculator



First name

Last name

Centre
number

Candidate
number

INSTRUCTIONS

- Use black ink. HB pencil may be used for graphs and diagrams only.
- Complete the boxes provided on the Printed Answer Booklet with your name, centre number and candidate number.
- Answer **all** the questions.
- **Write your answer to each question in the space provided in the Printed Answer Booklet.**
- Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).
- Do **not** write in the bar codes.
- You are permitted to use a scientific or graphical calculator in this paper.
- Final answers should be given to a degree of accuracy appropriate to the context.
- The acceleration due to gravity is denoted by $g \text{ m s}^{-2}$. Unless otherwise instructed, when a numerical value is needed, use $g = 9.8$.

INFORMATION

- You are advised that an answer may receive **no marks** unless you show sufficient detail of the working to indicate that a correct method is used. You should communicate your method with correct reasoning.
- The Printed Answer Booklet consists of **12** pages. The Question Paper consists of **8** pages.

1 (i)	
1 (ii)	
2	

(answer space continued on next page)

2 (continued)	
3 (i)	
3 (ii)	

3 (iii)	
4 (i)	

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4(ii)	

5(i)	

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5 (ii)	
5 (iii)	
5 (iv)	

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6 (i)	
6 (ii)	

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(answer space continued on next page)

6 (ii) (continued)	
6 (iii)	
6 (iv)	

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7 (i)	

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DO NOT WRITE IN THIS SPACE

7 (ii)	
7 (iii)	

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