



Oxford Cambridge and RSA

Wednesday 07 October 2020 – 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



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.
- 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	

3(a)

3(b)

4(a)	
4(b)	

5(a)	x for P	y for P	h	x for Q	y for Q	change in y	gradient PQ
	1	1	1				
	1	1	0.1	1.1	1.048 809	0.048 809	0.488 088
	1	1	0.01	1.01	1.004 988	0.004 988	0.498 756
	1	1	0.001	1.001	1.000 500	0.000 500	0.499 875
5(b)							
5(c)							

6(a)	
6(b)	

7(a)

7(b)

9(a)**9(b)**

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

11(a)	
11(b)	
11(c)	
(answer space continued on next page)	

11(c)	(continued)

12(a)	

12(b)	

