

Friday 14 June 2019 – Afternoon

A Level Mathematics A

H240/03 Pure Mathematics and Mechanics

PRINTED ANSWER BOOKLET

Time allowed: 2 hours

You must have:

• Question Paper H240/03 (inserted)

You may use:

· a scientific or graphical calculator



Please write clearly in black ink. Do not write in the barcodes.						
Centre number				Candidate number		
First name(s)						
Last name						

INSTRUCTIONS

- The Question Paper will be found inside the Printed Answer Booklet.
- Use black ink. HB pencil may be used for graphs and diagrams only.
- · 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).
- You are permitted to use a scientific or graphical calculator in this paper.
- 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 $g\,\mathrm{m}\,\mathrm{s}^{-2}$. Unless otherwise instructed, when a numerical value is needed, use g=9.8.

INFORMATION

- · You are reminded of the need for clear presentation in your answers.
- The Printed Answer Booklet consists of 16 pages. The Question Paper consists of 12 pages.



Section A: Pure Mathematics

1	
2(a)(i)	
2(0)(1)	
2(a)(ii)	
2(b)	
	(answer space continued on next page)
	(answer space continued on next page)

2(b)	(continued)
3(a)	

3(b)	
4(a)	
4(b)	

4(c)	
4(d)(i)	
1(4)(1)	
4(d)(ii)	
4(d)(iii)	

5(a)	

5(b)	

6	
	(answer space continued on next page)

6	(continued)

Section B: Mechanics

7(a)	
7(b)	
8(a)	
8(b)	

8(c)	
8(d)	

9(a)	
9(b)	
) (D)	

10(a)	
10(b)	

10(c)	
11(a)	

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

11(b)	(continued)
11(c)	
11(0)	
11(d)	

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