



Monday 3 June 2024 - Afternoon

A Level Further Mathematics A

Y541/01 Pure Core 2

Printed Answer Booklet

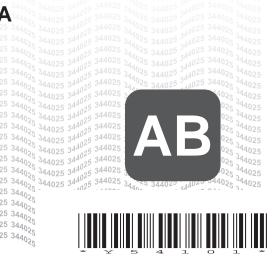
Time allowed: 1 hour 30 minutes

You must have:

• Question Paper Y541/01 (inside this document)

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- the Formulae Booklet for A Level Further Mathematics A
- · 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										

25 34₄₀25

25 344₀25

25 344₀2₅

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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 guestion 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 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 gm s⁻². When a numerical value is needed use g = 9.8 unless a different value is specified in the question.

INFORMATION

- The total mark for this paper is **75**.
- The marks for each question are shown in brackets [].
- This document has 16 pages.

ADVICE

Read each question carefully before you start your answer.

1(a)	
1(1-)(2)	
1(b)(i)	
1(b)(ii)	
•	
2(a)	
2(b)	

3(a)	
3(b)	
, ,	
2(-)	
3(c)	
3(d)	
1	

4

4	

5	

6(a)	
6(b)	
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	$\theta = \frac{1}{2}\pi$ $\theta = \frac{1}{4}\pi$ $\theta = \frac{1}{4}\pi$ $\theta = \frac{1}{6}\pi$
	$\theta = \frac{1}{12}\pi$ Initial line

6(c)	
6(d)	

7(a)	
70)	
7 (b)	
	(answer space continued on next page)
	(answer space continued on next page)

7(b)	(continued)

8(a)	
8 (b)	
8(c)(i)	
o(c)(1)	
8(c)(ii)	
3 (3) ()	

8(c)(iii)	
8(d)	
8(e)	

9(a)	

9(b)	
0(.)	
9(c)	
9(d)	
, ,	
9(e)	

9 (f)(i)	
9(f)(ii)	

15 EXTRA ANSWER SPACE

If you need extra space use these lined pages. You must write the question numbers clearly in the margin.



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