



Oxford Cambridge and RSA

Thursday 21 October 2021 – Afternoon

AS Level Further Mathematics A

Y535/01 Additional Pure Mathematics

Printed Answer Booklet

Time allowed: 1 hour 15 minutes



You must have:

- Question Paper Y535/01 (inside this document)
- the Formulae Booklet for AS Level Further Mathematics A
- 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 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 $g\text{ m s}^{-2}$. When a numerical value is needed use $g = 9.8$ unless a different value is specified in the question.

INFORMATION

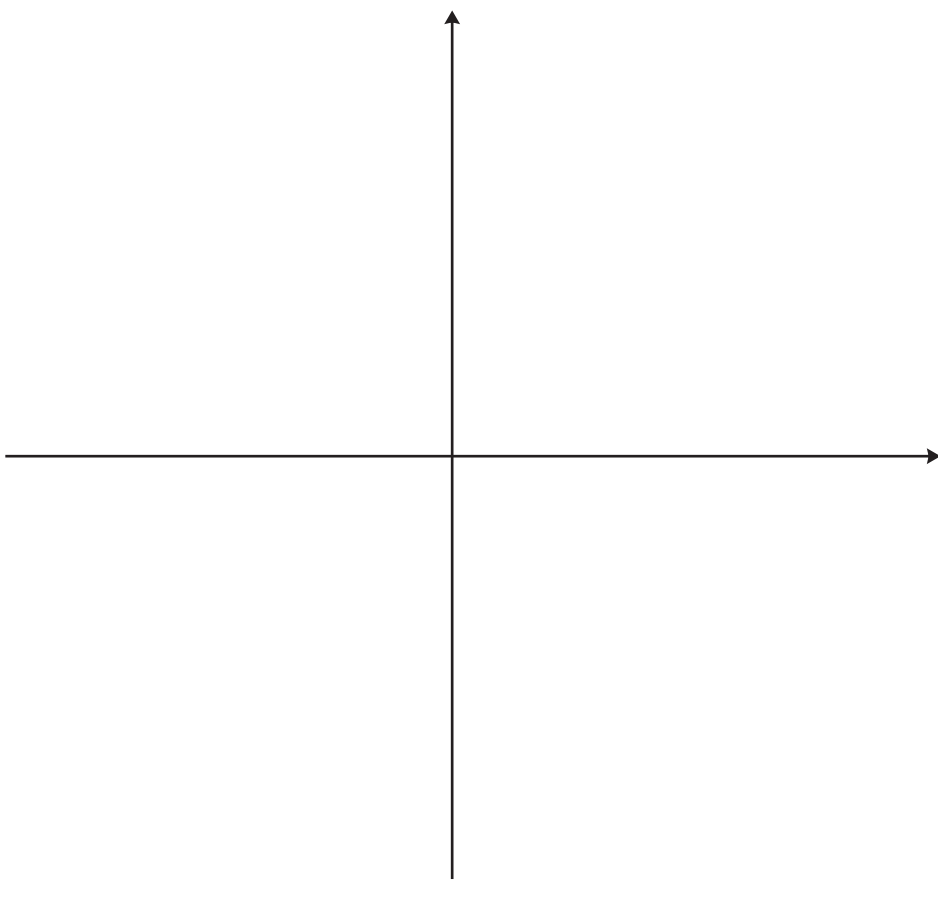
- The total mark for this paper is **60**.
- The marks for each question are shown in brackets [].
- This document has **12** pages.

ADVICE

- Read each question carefully before you start your answer.

1(a)(i)	
1(a)(ii)	
1(b)	

2(a)(i)	

2(a)(ii)	
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2(b)	

3(a)	

3(b)	

4(a)(i)	

4(a)(ii)	

4(b)	

5(a)	

5(b)	

6(a)(i)		$\sqrt{3} + i$	$-\sqrt{3} - i$	$1 - i\sqrt{3}$	$-1 + i\sqrt{3}$
	$\sqrt{3} + i$		$1 - i\sqrt{3}$		
	$-\sqrt{3} - i$		$-1 + i\sqrt{3}$	$-\sqrt{3} - i$	
	$1 - i\sqrt{3}$	$\sqrt{3} + i$			$-1 + i\sqrt{3}$
	$-1 + i\sqrt{3}$			$-1 + i\sqrt{3}$	
6(a)(ii)					
6(a)(iii)					
6(b)					
6(c)(i)					
6(c)(ii)					

7(a)	
7(b)(i)	
7(b)(ii)	

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