



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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**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  $g \text{ ms}^{-2}$ . When a numerical value is needed use  $g = 9.8$  unless a different value is specified in the question.

**INFORMATION**

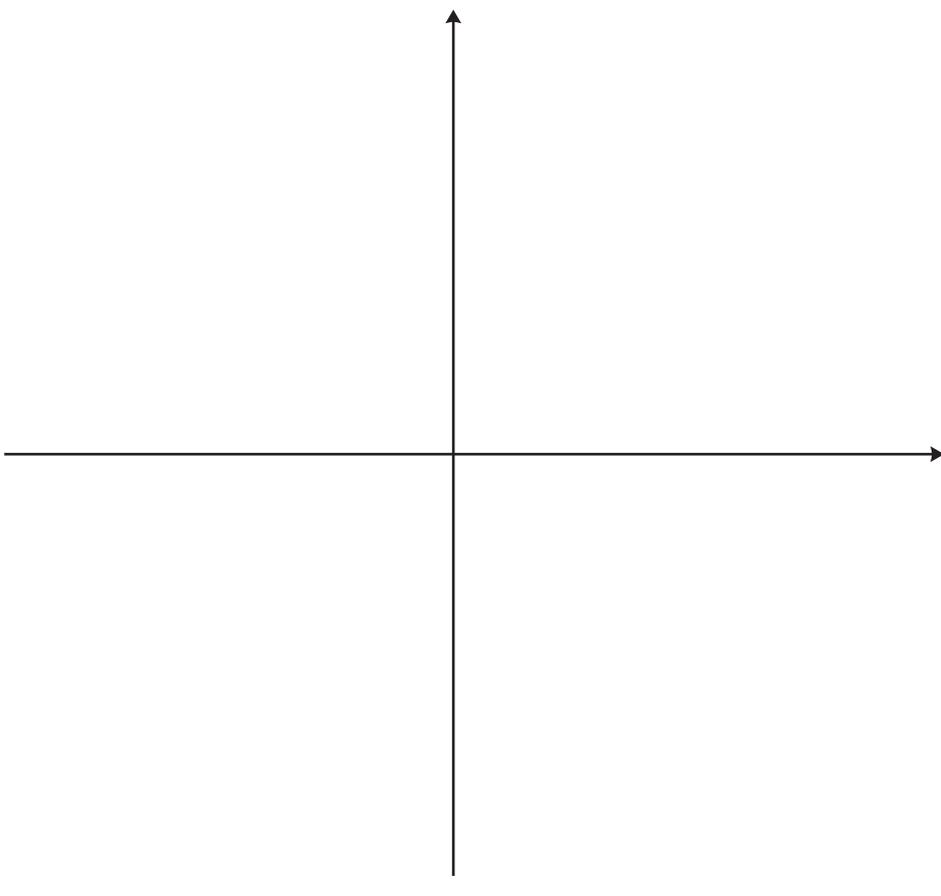
- The total mark for this paper is **60**.
- The marks for each question are shown in brackets [ ].
- This document has **12** pages.

**ADVICE**

- Read each question carefully before you start your answer.

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| <b>1(a)(i)</b>  |  |
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| <b>1(a)(ii)</b> |  |
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| <b>1(b)</b>     |  |
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| <b>2(a)(i)</b> |  |
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| <b>3(a)</b> |  |
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|                  | $\sqrt{3} + i$   |                | $1 - i\sqrt{3}$  |                  |                  |
|                  | $-\sqrt{3} - i$  |                | $-1 + i\sqrt{3}$ | $-\sqrt{3} - i$  |                  |
|                  | $1 - i\sqrt{3}$  | $\sqrt{3} + i$ |                  |                  | $-1 + i\sqrt{3}$ |
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| <b>6(b)</b>      |                  |                |                  |                  |                  |
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| <b>6(c)(i)</b>   |                  |                |                  |                  |                  |
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| <b>6(c)(ii)</b>  |                  |                |                  |                  |                  |
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