OCR
Oxford Cambridge and RSA

Wednesday 22 May 2024 – Afternoon

A Level Further Mathematics A

Y540/01 Pure Core 1

Printed Answer Booklet

Time allowed: 1 hour 30 minutes

AB

You must have:
- Question Paper Y540/01 (inside this document)
- 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 _____

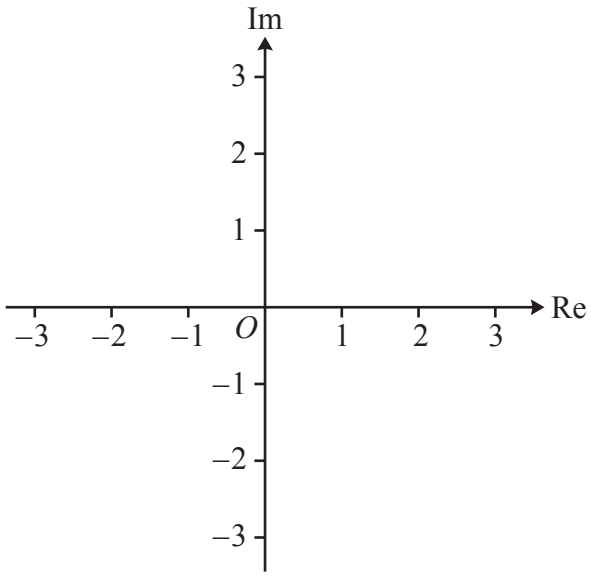
INSTRUCTIONS
- Use black ink. You can use an HB pencil, but only for graphs and diagrams.
- Write your answer to each question in the space provided in the **Printed Answer Booklet**. If you need extra space use the lined pages at the end of the Printed Answer Booklet. The question numbers must be clearly 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 $g\,\text{m}\,\text{s}^{-2}$. 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

2(a)



2(b)

2(c)	
2(d)	
3(a)	
3(b)	
3(c)	

4	

5

6	
7(a)	

7(b)

7(c)

8

9(a)

9(b)

10(a)

10(b)

(answer space continued on next page)

10(b)	(continued)

11(a)

11(b)

11(c)

12

(answer space continued on next page)

12 **(continued)**

EXTRA ANSWER SPACE

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