



Oxford Cambridge and RSA

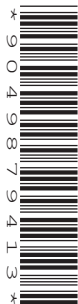
Monday 4 October 2021 – Afternoon

A Level Further Mathematics B (MEI)

Y420/01 Core Pure

Printed Answer Booklet

Time allowed: 2 hours 40 minutes



You must have:

- Question Paper Y420/01 (inside this document)
- the Formulae Booklet for Further Mathematics B (MEI)
- 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 your final answers to a degree of accuracy that is appropriate to the context.

INFORMATION

- This document has **28** pages.

ADVICE

- Read each question carefully before you start your answer.

Section A (31 marks)

1(a)	
1(b)	

2

3(a)	
	Modulus =
Argument =	
3(b)	

4

5(a)	
5(b)	
	5(c)

6

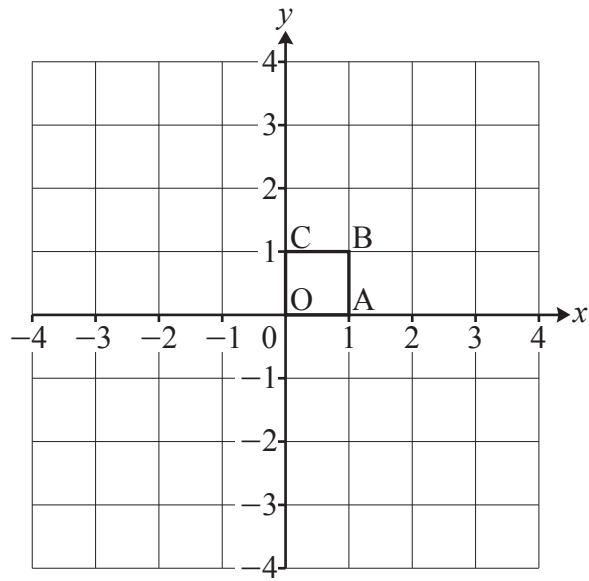
Section B (113 marks)**7**

8(a)

8(b)

 $p =$ $q =$

9(a)



9(b)(i)

9(b)(ii)

9(c)(i)

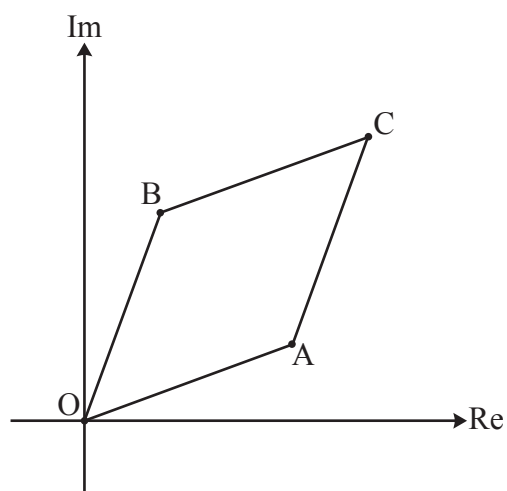
9(c)(ii)

10(a)	
10(b)(i)	
10(b)(ii)	

10(b)(iii)	
	10(b)(iv)

11(a)(i)	
11(a)(ii)	
11(b)(i)	
11(b)(ii)	

12



[illegible]

14(a)

14(b)(i)	
	14(b)(ii)

15

 $k =$ $l =$

16(a)	
16(b)	
	(answer space continued on next page)

[illegible]

17(a)(i)	
17(a)(ii)	

17(b)(i)	
17(b)(ii)	
17(c)(i)	

17(c)(ii)**(answer space continued on next page)**

17(c)(ii)	(continued)

[illegible]