



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

--	--	--	--	--

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 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)

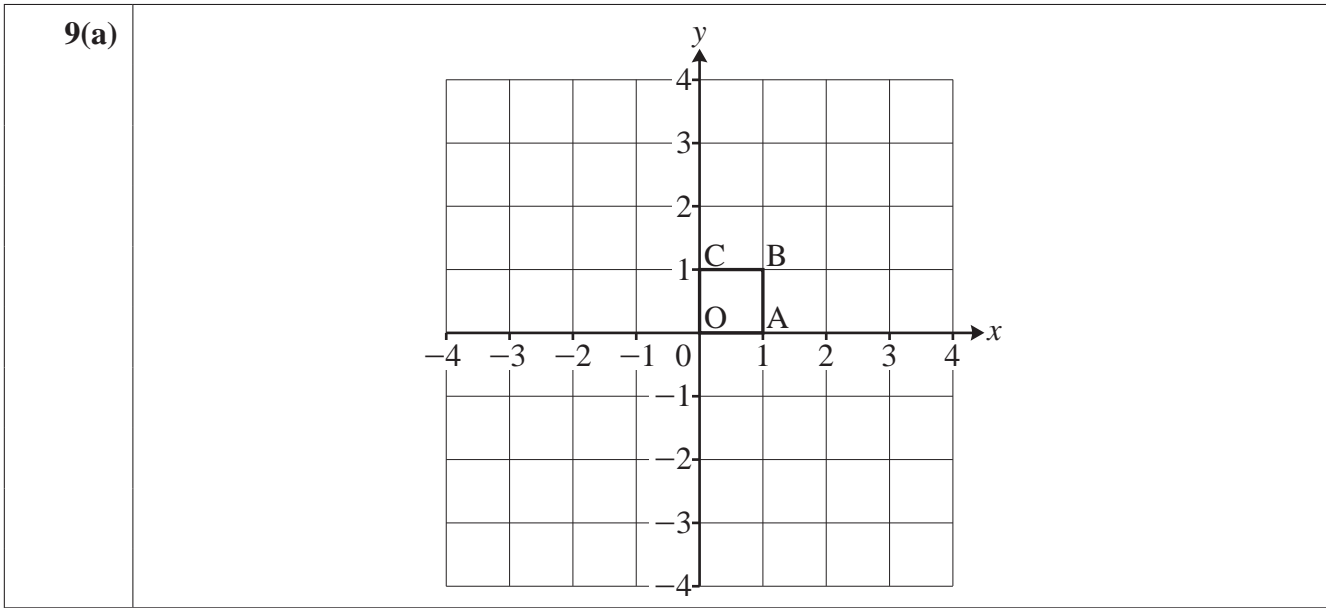
1(a)	
1(b)	

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

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

Section B (113 marks)

7	



9(b)(i)

9(b)(ii)

9(c)(i)

9(c)(ii)

10(a)																
10(b)(i)	<table border="1"><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr></table>															
10(b)(ii)	<table border="1"><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr></table>															

10(b)(iii)	

10(b)(iv)	

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

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

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

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

17(c)(ii)	(continued)

