



Oxford Cambridge and RSA

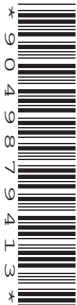
**Monday 4 October 2021 – Afternoon**

**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)

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Last name

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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 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)**

<b>1(a)</b>	
<b>1(b)</b>	



**3(a)**

Modulus =

Argument =

**3(b)**



<b>5(a)</b>	
<b>5(b)</b>	
<b>5(c)</b>	



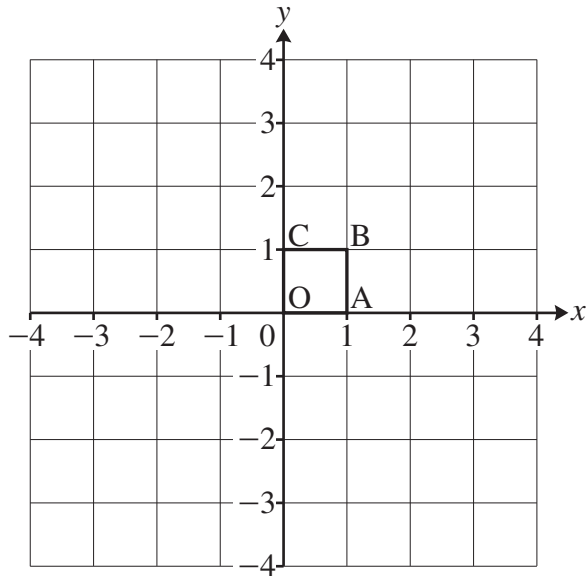








9(a)



9(b)(i)

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9(b)(ii)

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9(c)(i)

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9(c)(ii)

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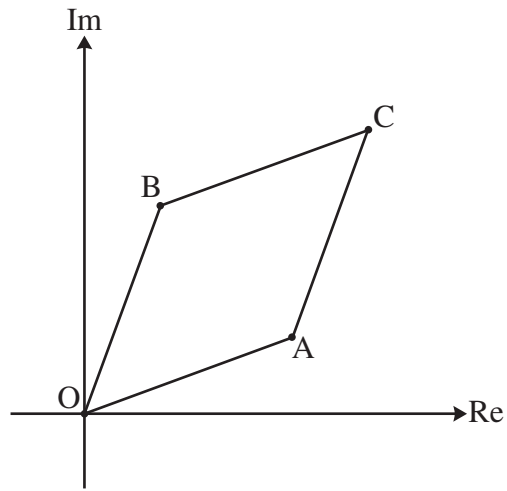
<b>10(a)</b>																
<b>10(b)(i)</b>	<table border="1"><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr><td></td></tr><tr>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

<b>10(b)(iii)</b>	

<b>10(b)(iv)</b>	

<b>11(a)(i)</b>	
<b>11(a)(ii)</b>	
<b>11(b)(i)</b>	
<b>11(b)(ii)</b>	

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<b>14(b)(i)</b>	
<b>14(b)(ii)</b>	







<b>17(a)(i)</b>	
<b>17(a)(ii)</b>	

<b>17(b)(i)</b>	
<b>17(b)(ii)</b>	
<b>17(c)(i)</b>	











