

## A Level Further Mathematics B (MEI)

### Y420 Core Pure

Printed Answer Booklet

Version 2

## Date – Morning/Afternoon

Time allowed: 2 hours 40 minutes

**You must have:**

- Question Paper Y420 (inserted)
- Formulae Further Mathematics B (MEI)

**You may use:**

- a scientific or graphical calculator



First name

Last name

Centre  
number

Candidate  
number

### INSTRUCTIONS

- The Question Paper will be found inside the Printed Answer Booklet.
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Complete the boxes provided on the Printed Answer Booklet with your name, centre number and candidate number.
- Answer **all** the questions.
- **Write your answer to each question in the space provided in the Printed Answer Booklet.** Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).
- Do **not** write in the bar codes.
- You are permitted to use a scientific or graphical calculator in this paper.
- Final answers should be given to a degree of accuracy appropriate to the context.

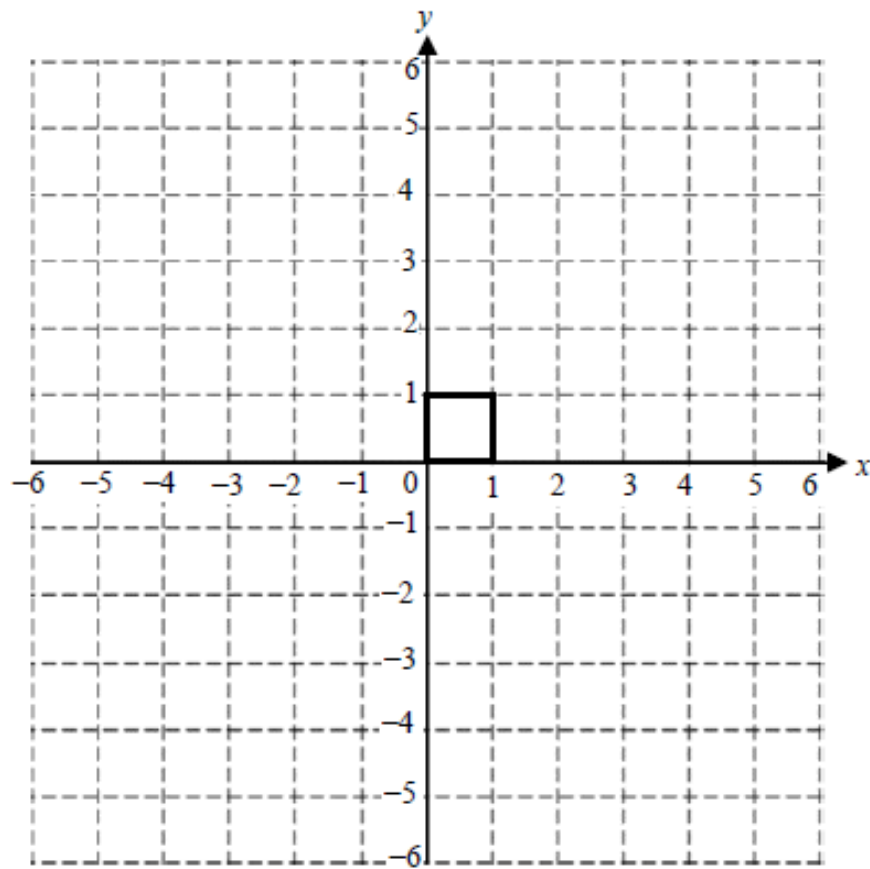
### INFORMATION

- You are advised that an answer may receive **no marks** unless you show sufficient detail of the working to indicate that a correct method is used. You should communicate your method with correct reasoning.
- The Printed Answer Booklet consists of **24** pages. The Question Paper consists of **8** pages.

Section A (33 marks)

<b>1</b>	
	<b>2 (i)</b>

2 (ii)

3 (i)  
(ii) (C)

A spare copy of this grid for question 3 (i) and (ii) can be found on page 22

<b>3 (ii)</b> <i>(A)</i>	
<b>3 (ii)</b> <i>(B)</i>	
<b>4</b>	

5(i)


5(ii)


(answer space continues on next page)

<b>5(ii) (continued)</b>	
<b>6 (i)</b>	
<b>6 (ii)</b>	

**Section B** (111 marks)

<b>7 (i)</b>	
<b>7 (ii)</b> (A)	
<b>7 (ii)</b> (B)	
<b>7 (iii)</b>	
<b>7 (iv)</b> (A)	

<b>7 (iv)</b> <i>(B)</i>	
<b>8</b>	



9 (i)

9 (ii)

<b>10 (i)</b>	

<b>10 (ii)</b>	
<b>11 (i)</b>	

**DO NOT WRITE IN THIS SPACE**

<b>11 (ii)</b>	

<b>12 (i)</b>	

<b>12 (ii)</b>	

<b>12 (iii)</b>	

<b>13 (i)</b>	

<b>13 (ii)</b>	

<b>13 (iii)</b> (A)	
<b>13 (iii)</b> (B)	
<b>13 (iv)</b>	
<b>14 (i)</b> (A)	



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

<b>14 (ii)</b>	

<b>14 (iii)</b>	
<b>14 (iv)</b>	



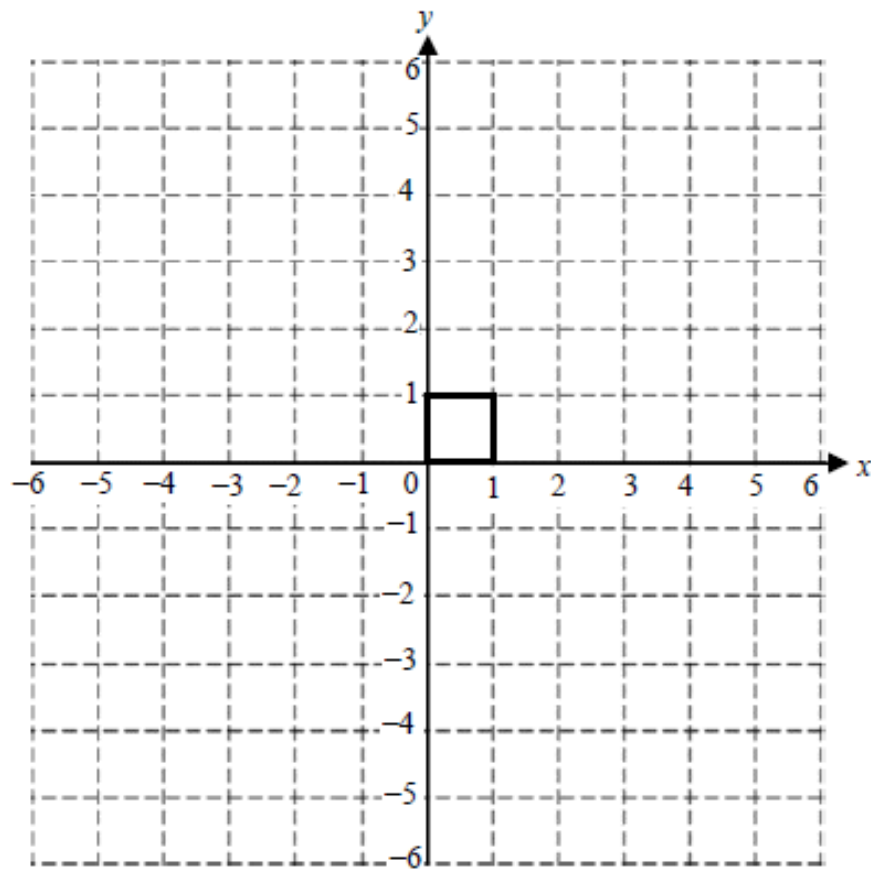
<b>16 (i)</b> <i>(A)</i>	
<b>16 (i)</b> <i>(B)</i>	
<b>16 (ii)</b> <i>(A)</i>	
<b>16 (ii)</b> <i>(B)</i>	

<b>16 (iii)</b>	

<b>16 (iv)</b>	

16 (v)


Spare copy of grid for question 3 (i) and (ii)



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