

## A Level Further Mathematics B (MEI) Y436 Further Pure with Technology Printed Answer Booklet

Version 2

### Date – Morning/Afternoon

Time allowed: 1 hour 45 minutes

**You must have:**

- Question Paper Y436
- Formulae Further Mathematics B (MEI)

**You may use:**

- a scientific or graphical calculator
- Computer with appropriate software



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.

#### COMPUTING RESOURCES

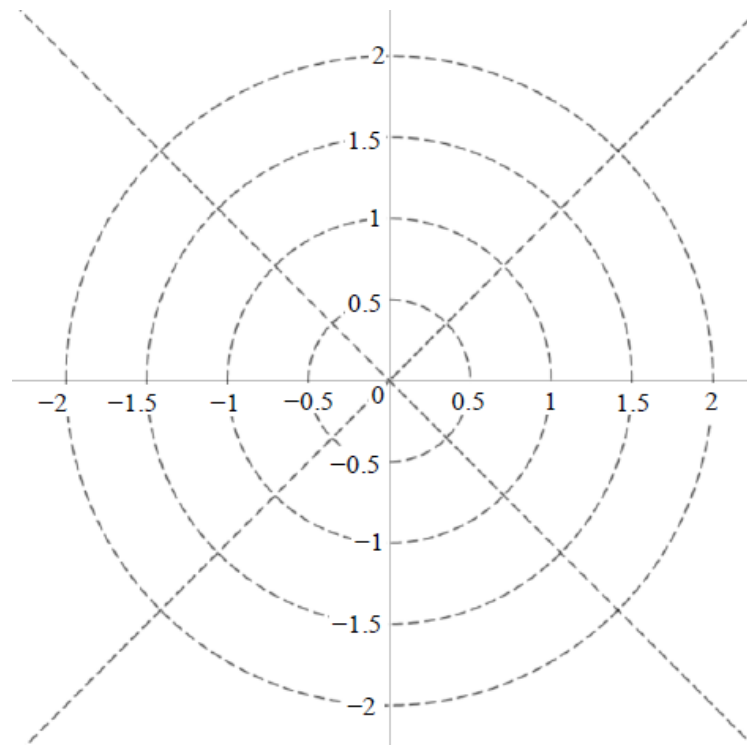
- Candidates will require access to a computer with a computer algebra system, a spreadsheet, a programming language and graph-plotting software throughout the examination.

#### INFORMATION

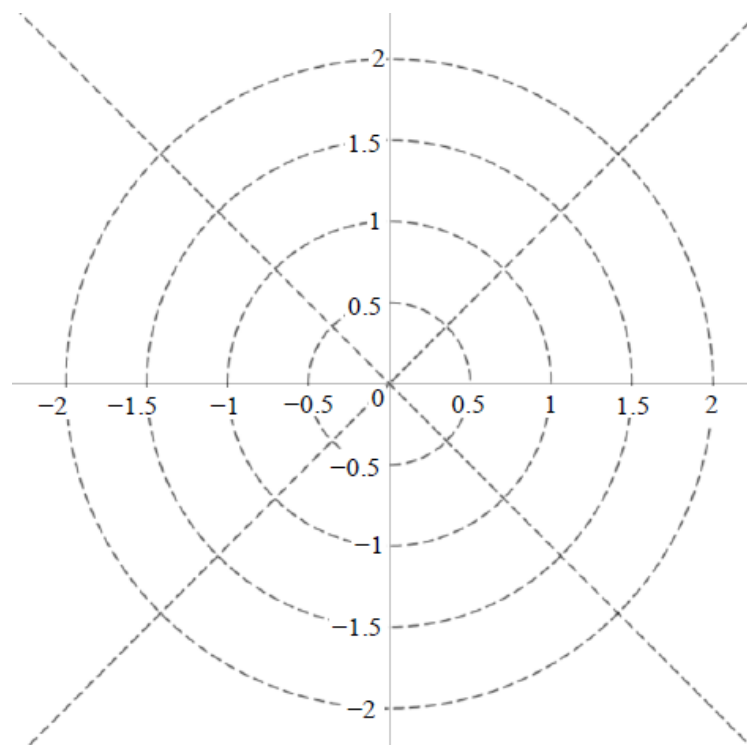
- You are advised that an answer may receive **no marks** unless you show sufficient detail of the working to indicate that a correct method is used.
- The Printed Answer Booklet consists of **12** pages. The Question Paper consists of **4** pages.

1 (i)  
(A)

$n=2$



$n=4$



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| <b>1 (i)</b><br><i>(B)</i>  |  |
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| <b>1 (i)</b><br><i>(C)</i>  |  |
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| <b>1 (ii)</b><br><i>(A)</i> |  |
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| <b>1 (ii)</b><br><i>(B)</i> |  |
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| <b>1 (ii)</b><br><i>(A)</i> |  |
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| <b>1 (ii)</b><br><i>(B)</i> |  |
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| <b>1 (iv)</b> |  |
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| <b>1 (iv) (continued)</b> |  |
| <b>1 (v)</b>              |  |

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| <b>2 (i)</b><br><i>(A)</i> |  |
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| <b>2 (i)</b><br><i>(B)</i> |  |
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| <b>2 (ii)</b>              |  |
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| <b>2 (ii)</b><br><i>(A)</i> |  |
| <b>2 (ii)</b><br><i>(B)</i> |  |
| <b>2 (ii)</b><br><i>(C)</i> |  |
| <b>2 (ii)</b><br><i>(D)</i> |  |

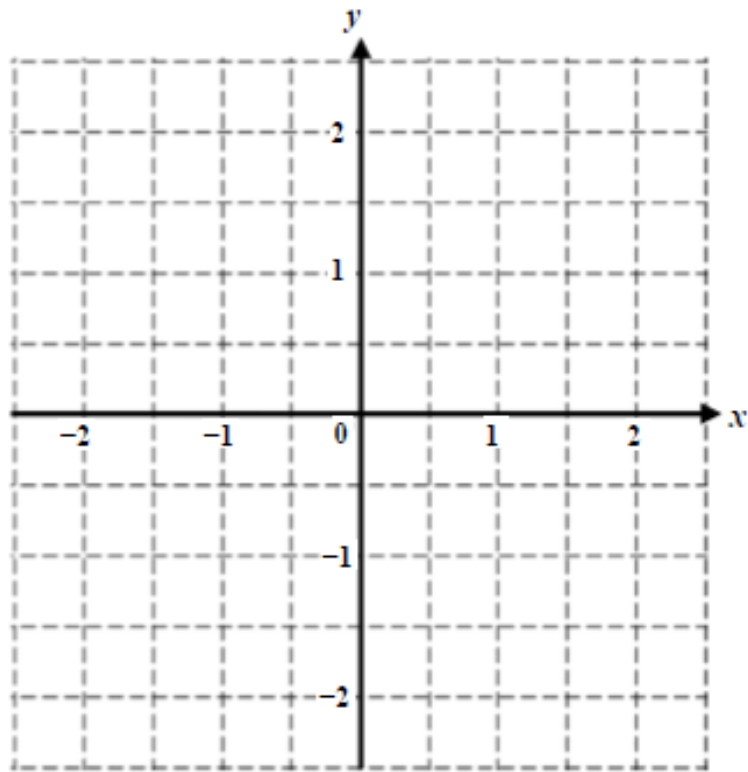
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| <b>2 (iv)</b><br><i>(A)</i> |  |
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| <b>2 (iv)</b><br><i>(B)</i> |  |
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| <b>2 (iv)</b><br><i>(C)</i> |  |
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3 (i)

(A)

$$a = -2$$



3 (i)

(B)

3 (i)

(C)

3 (i)

(D)

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| <b>3 (ii)</b><br><i>(A)</i> |  |
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| <b>3 (ii)</b><br><i>(B)</i> |  |
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| <b>3 (ii)</b><br><i>(A)</i> |  |
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| <b>3 (ii)</b><br><i>(B)</i> |  |
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| <b>3 (ii)</b><br><i>(C)</i> |  |
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| <b>3 (iv)</b><br><i>(A)</i> |  |
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| <b>3 (iv)</b><br><i>(B)</i> |  |
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