



Oxford Cambridge and RSA

Monday 24 June 2019 – Morning

A Level Further Mathematics B (MEI)

Y435/01 Extra Pure

Printed Answer Booklet

Time allowed: 1 hour 15 minutes

You must have:

- Question Paper Y435/01 (inserted)
- Formulae Further Mathematics B (MEI)

You may use:

- 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

- The Question Paper will be found inside the Printed Answer Booklet.
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Answer **all** the questions.
- **Write your answer to each question in the space provided in the Printed Answer Booklet.** If additional space is required, you should use the lined page(s) at the end of this booklet. The question number(s) must be clearly shown.
- 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

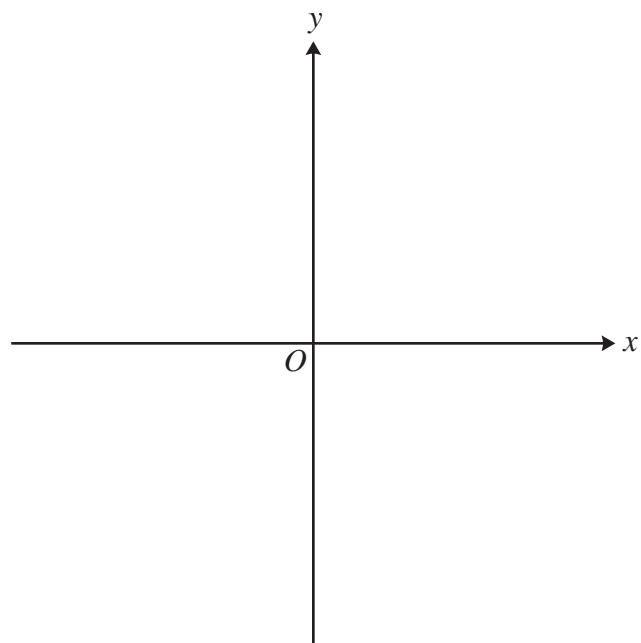
- You are advised that an answer may receive **no marks** unless you show sufficient detail of the working to indicate that a correct method is used. You should communicate your method with correct reasoning.
- The Printed Answer Booklet consists of **12** pages. The Question Paper consists of **4**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

| | |
|-------------|--|
| 1(a) | |
| | |
| | |
| | |
| | |
| 1(b) | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| 1(c) | |
| | |
| | |
| | |
| | |

2(a)

| |
|--|
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |

2(b)(i)



| |
|--|
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |

| | |
|-----------------|--|
| 2(b)(ii) | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| 2(c) | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

3

(answer space continued on next page)

| | |
|-----------------|--|
| 4(a) | |
| | |
| | |
| | |
| | |
| 4(b) | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| 4(c)(i) | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| 4(c)(ii) | |
| | |
| | |

| | |
|-------------|--|
| 5(a) | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

| | |
|-------------|--|
| 5(b) | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

| | |
|-----------------|--|
| 5(c) | |
| | |
| | |
| | |
| | |
| | |
| | |
| 5(d)(i) | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| 5(d)(ii) | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

| | |
|-------------|--|
| 6(a) | |
| 6(b) | <p>(answer space continued on next page)</p> |

| | |
|-------------|--------------------|
| 6(b) | (continued) |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| 6(c) | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| 6(d) | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

ADDITIONAL ANSWER SPACE

If additional space is required, you should use the following lined page(s). The question number(s) must be clearly shown in the margin(s).

| | |
|--|--|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |



Oxford Cambridge and RSA

Copyright Information

OCR is committed to seeking permission to reproduce all third-party content that it uses in its assessment materials. OCR has attempted to identify and contact all copyright holders whose work is used in this paper. To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced in the OCR Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download from our public website (www.ocr.org.uk) after the live examination series.

If OCR has unwittingly failed to correctly acknowledge or clear any third-party content in this assessment material, OCR will be happy to correct its mistake at the earliest possible opportunity.

For queries or further information please contact The OCR Copyright Team, The Triangle Building, Shaftesbury Road, Cambridge CB2 8EA.

OCR is part of the Cambridge Assessment Group; Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.