



Oxford Cambridge and RSA

**Friday 17 June 2022 – Afternoon**

**AS Level Further Mathematics A**

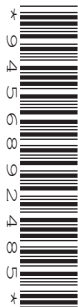
**Y535/01** Additional Pure Mathematics

Printed Answer Booklet

**Time allowed: 1 hour 15 minutes**

**You must have:**

- Question Paper Y535/01 (inside this document)
- the Formulae Booklet for AS Level Further Mathematics A
- a scientific or graphical calculator



Please write clearly in black ink. **Do not write in the barcodes.**

Centre number

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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 non-exact numerical answers correct to **3** significant figures unless a different degree of accuracy is specified in the question.
- The acceleration due to gravity is denoted by  $g \text{ m s}^{-2}$ . When a numerical value is needed use  $g = 9.8$  unless a different value is specified in the question.

**INFORMATION**

- The total mark for this paper is **60**.
- The marks for each question are shown in brackets [ ].
- This document has **16** pages.

**ADVICE**

- Read each question carefully before you start your answer.

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**4(a)**

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**4(b)**

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**5(a)**

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**5(b)**

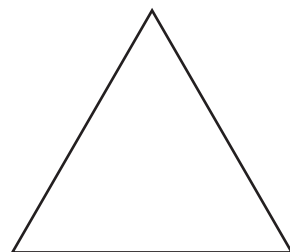
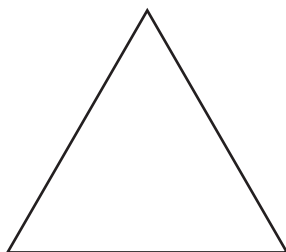
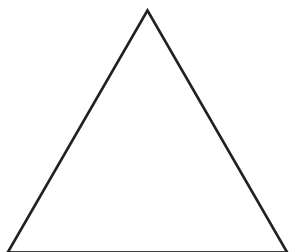
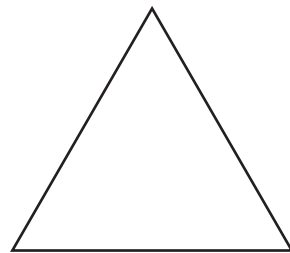
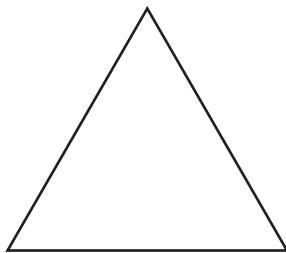
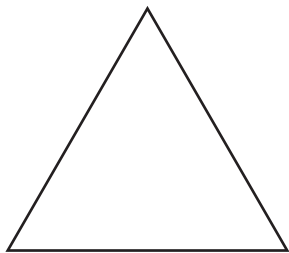
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7(a)



A series of 17 horizontal lines for writing.

7(b)

|          | <i>i</i> | <i>a</i> | <i>b</i> | <i>c</i> | <i>p</i> | <i>q</i> |
|----------|----------|----------|----------|----------|----------|----------|
| <i>i</i> | <i>i</i> | <i>a</i> | <i>b</i> | <i>c</i> | <i>p</i> | <i>q</i> |
| <i>a</i> | <i>a</i> |          |          |          |          |          |
| <i>b</i> | <i>b</i> |          |          |          |          |          |
| <i>c</i> | <i>c</i> |          |          |          |          |          |
| <i>p</i> | <i>p</i> |          |          |          |          |          |
| <i>q</i> | <i>q</i> |          |          |          |          |          |

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| <b>7(c)</b>     |  |
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| <b>7(d)(i)</b>  |  |
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