



Oxford Cambridge and RSA

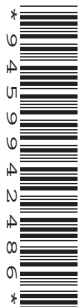
**Thursday 23 June 2022 – Afternoon**

**A Level Further Mathematics A**

**Y545/01** Additional Pure Mathematics

Printed Answer Booklet

**Time allowed: 1 hour 30 minutes**



**You must have:**

- Question Paper Y545/01 (inside this document)
- the Formulae Booklet for A 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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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 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 **75**.
- The marks for each question are shown in brackets [ ].
- This document has **16** pages.

**ADVICE**

- Read each question carefully before you start your answer.

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

<b>2(b)</b>	

<b>3</b>	

<b>4(a)(i)</b>	
<b>4(a)(ii)</b>	

<b>4(a)(iii)</b>	
<b>4(b)(i)</b>	
<b>4(b)(ii)</b>	
<b>4(b)(iii)</b>	

<b>5(a)</b>	
<b>5(b)(i)</b>	
<b>5(b)(ii)</b>	

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<b>6(a)</b>	
<b>6(b)(i)</b>	
<b>6(b)(ii)</b>	
	<b>6(b)(iii)</b>



<b>6(c)(i)</b>	
<b>6(c)(ii)</b>	

<b>7(a)</b>	
<b>7(b)</b>	



<b>8(a)</b>	
<b>8(b)</b>	
<b>8(c)</b>	
<b>8(d)</b>	

<b>9(a)</b>	
<b>9(b)</b>	





