

Monday 3 June 2024 – Afternoon

A Level Further Mathematics A

Y541/01 Pure Core 2

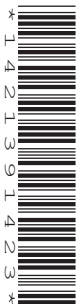
Printed Answer Booklet

Time allowed: **1 hour 30 minutes**



You must have:

- Question Paper Y541/01 (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)

Last name

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.

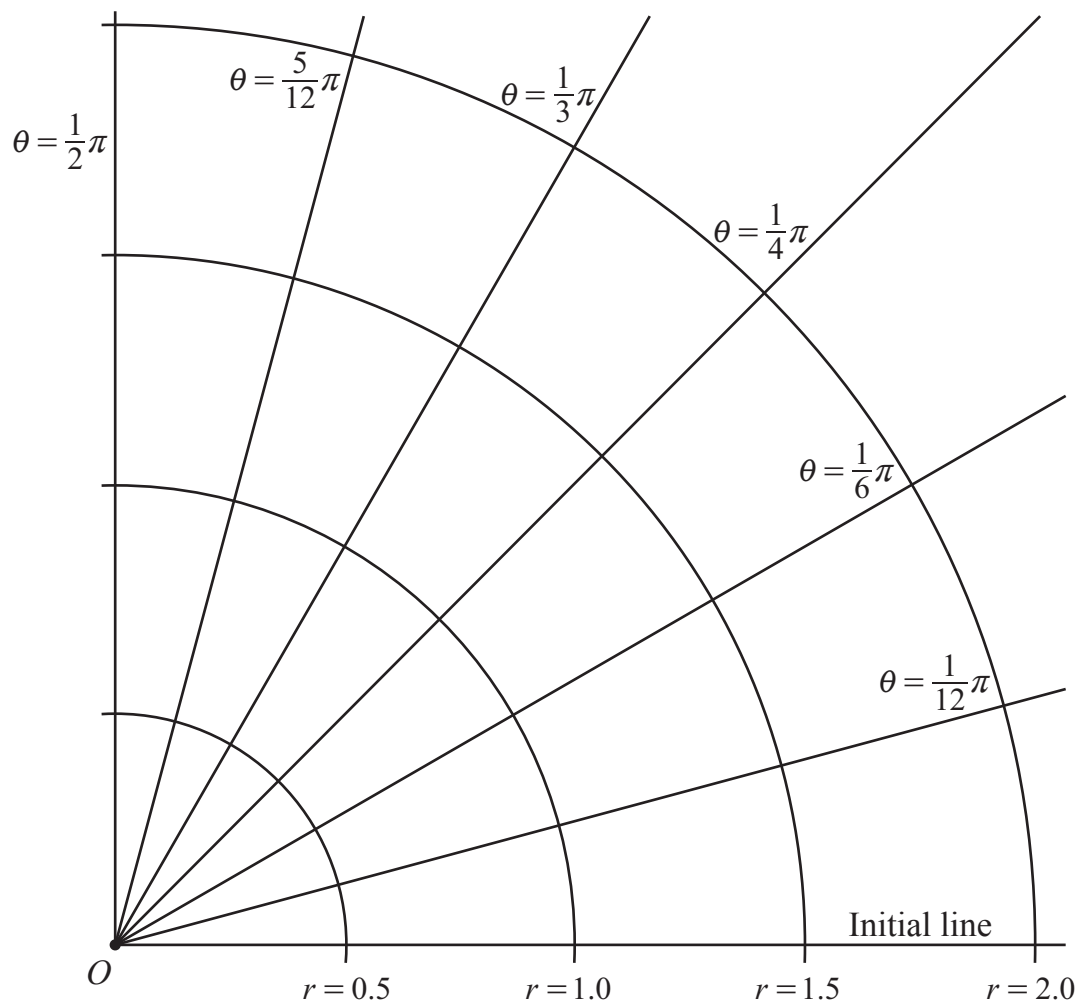
1(a)	
1(b)(i)	
1(b)(ii)	
2(a)	
2(b)	

3(a)	
3(b)	
3(c)	
3(d)	

6(a)

6(b)

θ	0	$\frac{1}{12}\pi$	$\frac{1}{6}\pi$	$\frac{1}{4}\pi$	$\frac{1}{3}\pi$	$\frac{5}{12}\pi$	$\frac{1}{2}\pi$
r	0	0.262			1.851		



8(a)	
8(b)	
8(c)(i)	
8(c)(ii)	

8(c)(iii)	

8(d)	

8(e)	

9(b)	
9(c)	
9(d)	
9(e)	

9(f)(i)	

9(f)(ii)	

