

## AS Level Further Mathematics A Y534 Discrete Mathematics

Printed Answer Booklet

Version 2

### Date – Morning/Afternoon

Time allowed: 1 hour 15 minutes

**You must have:**

- Question Paper Y534 (inserted)
- Formulae AS Level Further Mathematics A

**You may use:**

- a scientific or graphical calculator



First name

Last name

Centre  
number

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Candidate  
number

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#### 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.
- 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  $g \text{ m s}^{-2}$ . Unless otherwise instructed, when a numerical value is needed, use  $g = 9.8$ .

#### INFORMATION

- **You are reminded of the need for clear presentation in your answers.**
- The Printed Answer Booklet consists of **12** pages. The Question Paper consists of **8** pages.

<b>1(A)</b>	
<b>1(B)</b>	
<b>2(i)</b>	
<b>2(ii)</b>	
<b>2(iii)</b>	

<b>3(i)</b>	
<b>3(ii)</b>	
<b>4(i)</b>	
<b>4(ii)</b>	
<b>4(iii)</b>	
<b>4(iv)</b>	

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





<b>6(ii)</b>	

**PLEASE DO NOT WRITE IN THIS SPACE**

7(i)

	<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>
<b>A</b>	-	9	5	4	2
<b>B</b>	9	-	7	5	7
<b>C</b>	5	7	-	6	8
<b>D</b>	4	5	6	-	5
<b>E</b>	2	7	8	5	-

7(ii)



<b>7(iii)</b>	
<b>7(iv)</b>	

<b>8(i)</b>	
<b>8(ii)</b>	
<b>8(iii)</b>	

<b>8(iv)(a)</b>	

<b>8(iv)(b)</b>	<table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>																																																							

<b>8(iv)(c)</b>	

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