

## A Level Further Mathematics A

### Y540 Pure Core 1

Printed Answer Booklet

Version 2

## Date – Morning/Afternoon

Time allowed: 1 hour 30 minutes

**You must have:**

- Question Paper Y540 (inserted)
- Formulae A Level Further Mathematics A

**You may use:**

- a scientific or graphical calculator



First name

Last name

Centre  
number

Candidate  
number

### 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</b>	
<b>2(i)</b>	
<b>2(ii)</b>	



4	
<b>5(i)</b>	
<b>5(ii)</b>	

6


7(i)


(answer space continued on next page)

<b>7(i) (continued)</b>	
<b>7(ii)</b>	

**8(i)**


**8(ii)**


<b>9</b>	
<b>10(i)(a)</b>	
<b>10(i)(b)</b>	



<b>10(i)(c)</b>	
<b>10(i)(d)</b>	
<b>10(i)(e)</b>	
<b>10(ii)</b>	

<b>11(i)</b>	
<b>11(ii)</b>	

<b>11(iii)</b>	

<b>11(iv)</b>	
<b>11(v)</b>	
<b>11(vi)(a)</b>	
<b>11(vi)(b)</b>	
<b>11(vii)</b>	

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