

Friday 18 January 2013 – Afternoon

A2 GCE MATHEMATICS MEI

4754/01A Applications of Advanced Mathematics (C4) Paper A

PRINTED ANSWER BOOK

Candidates answer on this Printed Answer Book.

OCR supplied materials:

- Question Paper 4754/01A (inserted)
- MEI Examination Formulae and Tables (MF2)

Other materials required:

- Scientific or graphical calculator

Duration: 1 hour 30 minutes



Candidate forename		Candidate surname	
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Centre number						Candidate number				
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INSTRUCTIONS TO CANDIDATES

These instructions are the same on the Printed Answer Book and the Question Paper.

- The Question Paper will be found in the centre of the Printed Answer Book.
- Write your name, centre number and candidate number in the spaces provided on the Printed Answer Book. Please write clearly and in capital letters.
- **Write your answer to each question in the space provided in the Printed Answer Book.** Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Read each question carefully. Make sure you know what you have to do before starting your answer.
- Answer **all** the questions.
- Do **not** write in the bar codes.
- You are permitted to use a scientific or graphical calculator in this paper.
- Final answers should be given to a degree of accuracy appropriate to the context.

INFORMATION FOR CANDIDATES

This information is the same on the Printed Answer Book and the Question Paper.

- The number of marks is given in brackets [] at the end of each question or part question on the Question Paper.
- You are advised that an answer may receive **no marks** unless you show sufficient detail of the working to indicate that a correct method is being used.
- The total number of marks for this paper is **72**.
- The Printed Answer Book consists of **16** pages. The Question Paper consists of **4** pages. Any blank pages are indicated.
- The paper will be followed by **Paper B: Comprehension**.

Section A (36 marks)

1	

2

3 (i)	

3 (ii)	

4 (b) (i)	<table border="1"><tr><td>x</td><td>0</td><td>0.5</td><td>1</td><td>1.5</td><td>2</td></tr><tr><td>y</td><td></td><td>1.9283</td><td>2.8964</td><td>4.5919</td><td></td></tr></table>	x	0	0.5	1	1.5	2	y		1.9283	2.8964	4.5919	
	x	0	0.5	1	1.5	2							
	y		1.9283	2.8964	4.5919								
4 (b)(ii)													

6 (i)

6 (ii)

Section B (36 marks)

7 (i)	

7 (iii)	

8 (i)	
8 (ii)	

8 (iii)	(continued)
8 (iv)	

8 (v)**(answer space continued on next page)**

8 (v) (continued)	



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