



Thursday 12 June 2014 – Afternoon

A2 GCE MATHEMATICS (MEI)

4758/01 Differential Equations

PRINTED ANSWER BOOK

Candidates answer on this Printed Answer Book.

OCR supplied materials:

- Question Paper 4758/01 (inserted)
- MEI Examination Formulae and Tables (MF2)

Other materials required:

- Scientific or graphical calculator

Duration: 1 hour 30 minutes



Candidate forename		Candidate surname	
Centre number		Candidate number	

INSTRUCTIONS TO CANDIDATES

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

- The Question Paper will be found inside 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 any **three** 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.
- The acceleration due to gravity is denoted by $g \text{ ms}^{-2}$. Unless otherwise instructed, when a numerical value is needed, use $g = 9.8$.

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.

1(i)**(answer space continued on next page)**

1 (i)	(continued)
1 (ii)	

1 (iii)	
	1 (iv)

1(v)	
1(vi)	

2(i)	
2(ii)	

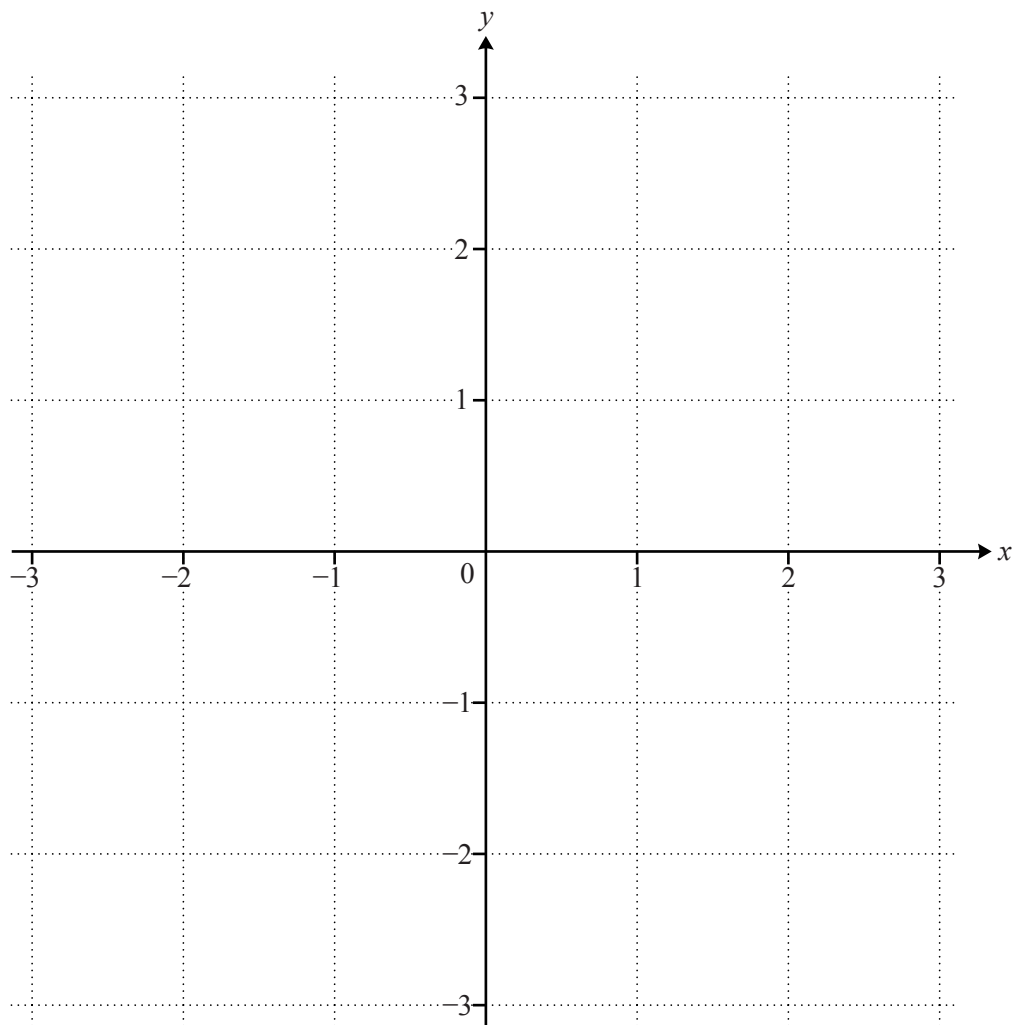
(answer space continued on next page)

2(iv)	(continued)
	2(v)
2(vi)	

3 (a) (i)	

3(a)(ii)	
3(b)(i)	

**3 (b) (ii)
& (iii)**



A spare copy of this diagram can be found on page 16.

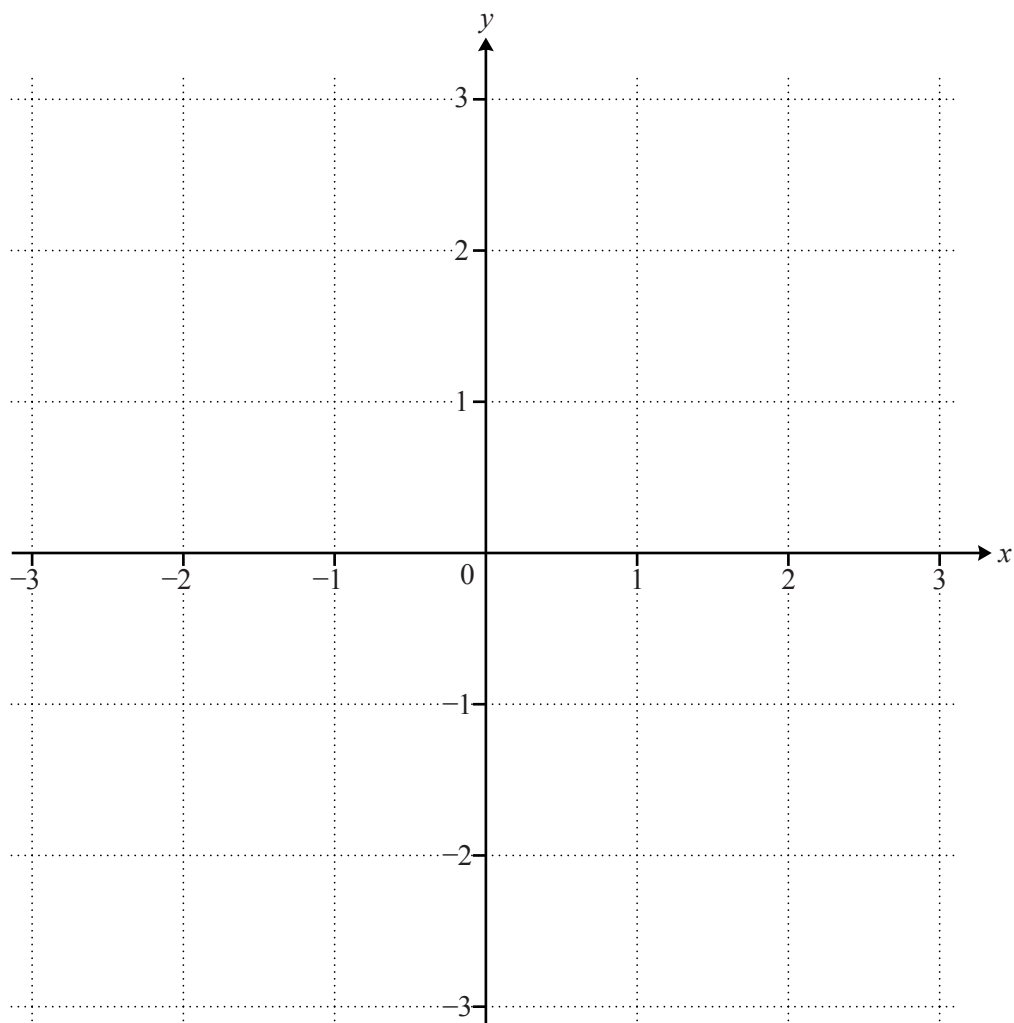
3 (b) (iv)

4(i)**(answer space continued on next page)**

4(i)	(continued)
4(ii)	

[illegible]

[illegible]

**3(b)(ii)
& (iii)****Spare copy of diagram for questions 3(b)(ii) and 3(b)(iii)****Copyright Information**

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