

Friday 1 June 2012 – Morning

AS GCE MATHEMATICS (MEI)

4761 Mechanics 1

PRINTED ANSWER BOOK

Candidates answer on this Printed Answer Book.

OCR supplied materials:

- Question Paper 4761 (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.
- Answer **all** the questions.
- Read each question carefully. Make sure you know what you have to do before starting your answer.
- 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 **8** pages. Any blank pages are indicated.

Section A (36 marks)

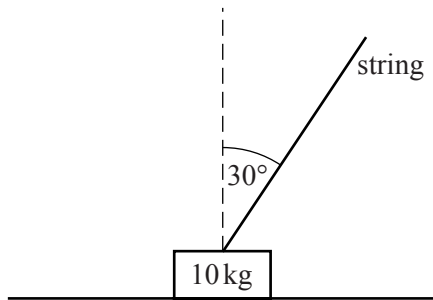
1 (A)	
1 (B)	
1 (C)	
1 (D)	

2 (i)

2 (ii)

3 (i)	
3 (ii)(A)	
3 (ii)(B)	
4 (i)	

5 (i)



5 (ii)

5 (iii)	
5 (iv)	

Section B (36 marks)

7 (i)	
7 (ii)(A)	

(answer space continued on next page)

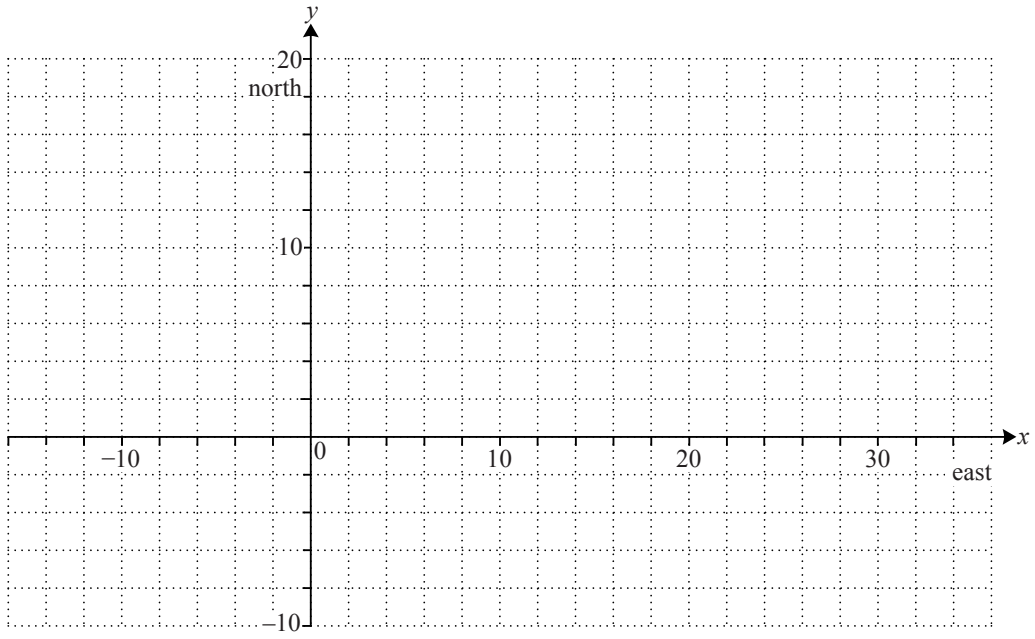
7 (ii)(A) (continued)	
7 (ii)(B)	

7 (iii)	
7 (iv)	

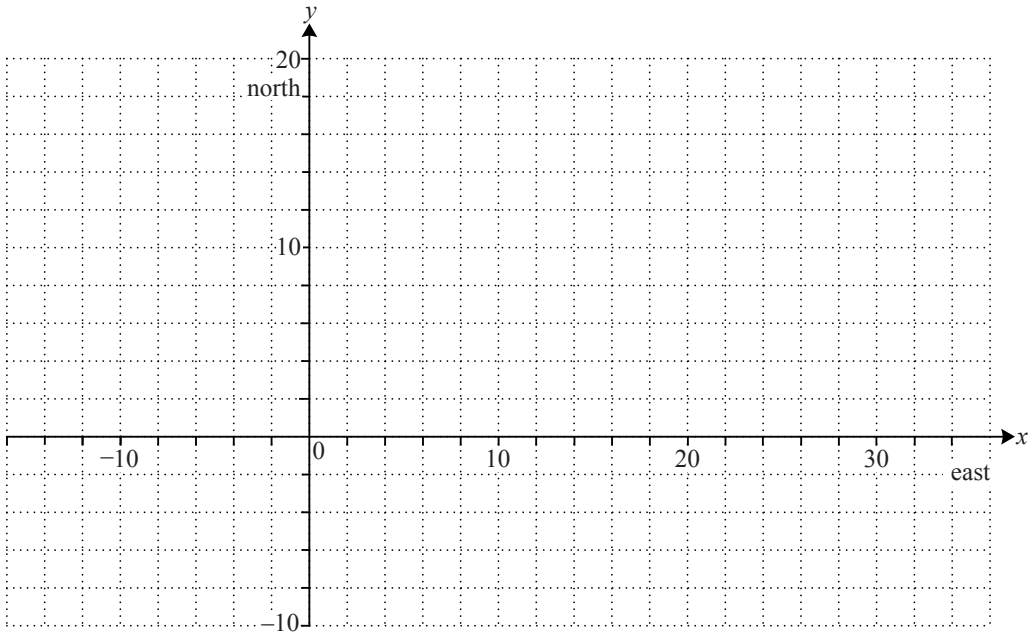
(answer space continued on next page)

7 (iv) (continued)	
8 (i)	
8 (ii)	

8 (iii)



Spare copy of grid for 8(iii)



8 (iv)

8 (vi)	



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