

Candidate forename		Candidate surname	
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Centre number						Candidate number				
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**OXFORD CAMBRIDGE AND RSA EXAMINATIONS
AS GCE**

4771

MATHEMATICS (MEI)

Decision Mathematics 1

PRINTED ANSWER BOOK

MONDAY 23 JANUARY 2012: Morning

DURATION: 1 hour 30 minutes

SUITABLE FOR VISUALLY IMPAIRED CANDIDATES

Candidates answer on the Printed Answer Book or any suitable paper provided by the centre. The Printed Answer Book may be enlarged by the centre.

OCR SUPPLIED MATERIALS:

Question Paper 4771 (inserted)

MEI Examination Formulae and Tables (MF2)

OTHER MATERIALS REQUIRED:

Scientific or graphical calculator

READ INSTRUCTIONS OVERLEAF

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 name and candidate number in the spaces provided on the Printed Answer Book. Please write clearly and in capital letters.**
- **Candidates answer on the Printed Answer Book or any suitable paper provided by the centre. The Printed Answer Book may be enlarged by the centre.**
- **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.**
- **You are permitted to use a 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.**

SECTION A (24 marks)

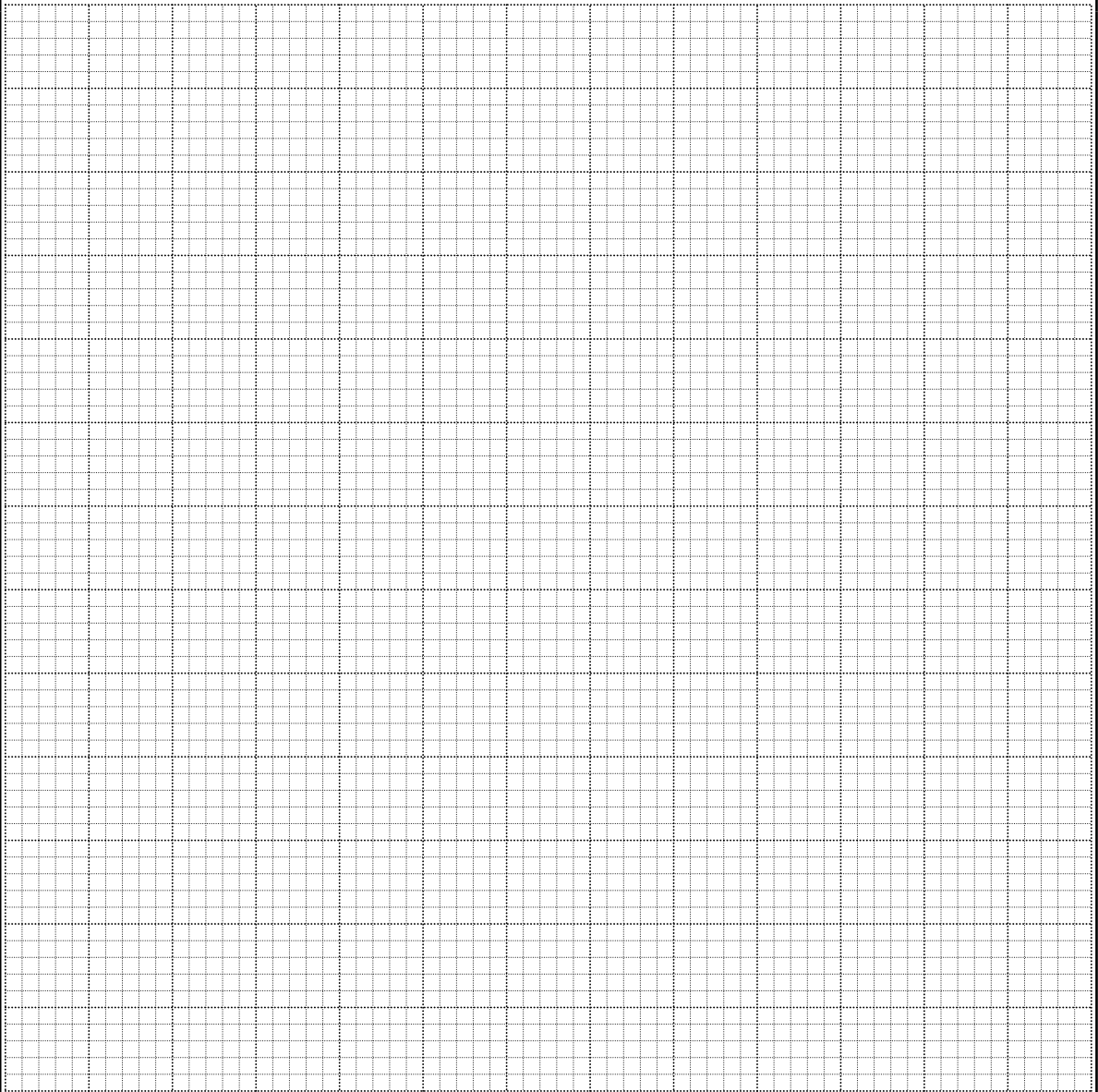
1 (i)	
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2 (i)	

2 (ii)	

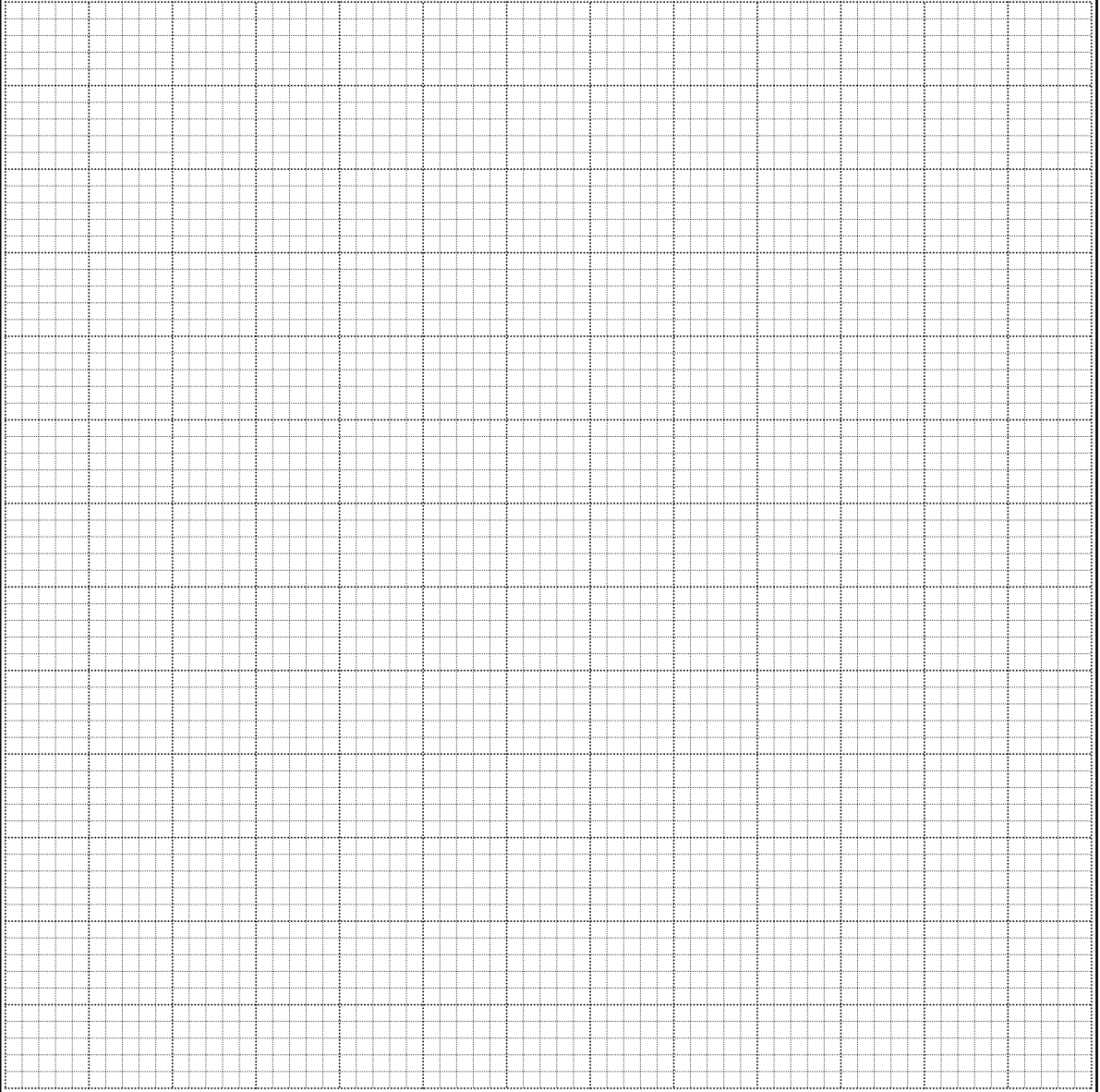
2 (iii)	

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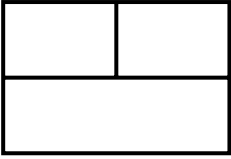

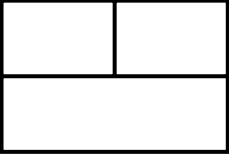
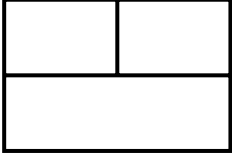
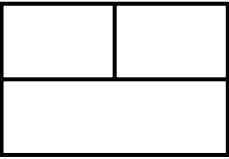
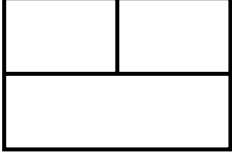
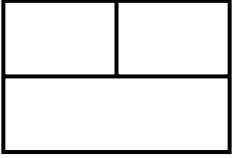


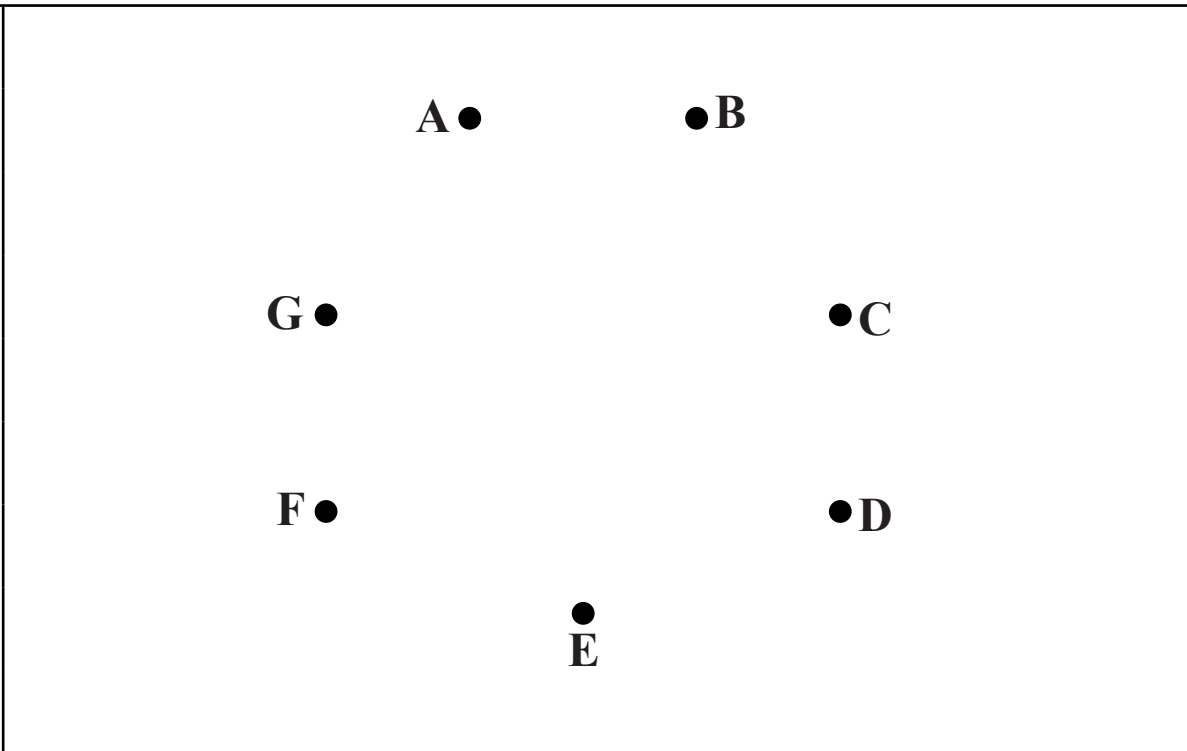
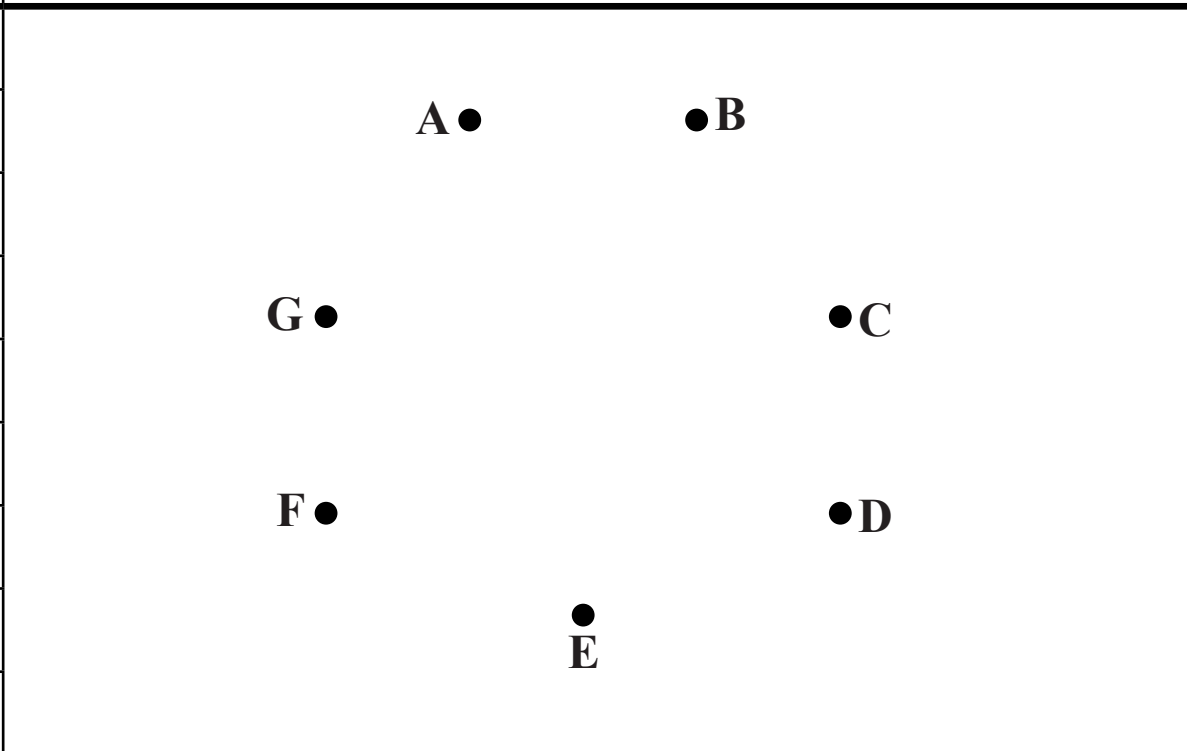
**A SPARE COPY OF THIS GRAPH PAPER CAN BE
FOUND ON PAGE 12.**

SPARE COPY OF GRAPH PAPER FOR QUESTION 3.



SECTION B (48 marks)

<p>4 (i) & (ii)</p>	<p> A ●</p> <p> ● B</p> <p> G ●</p> <p> ● C</p> <p> F ●</p> <p> ● D</p> <p> ● E</p>

4 (iii)	
	Total length of edges:
4 (iv)	
	Total length of edges:

4 (v)	

5 (iv)	

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6 (i)
& (ii)

6 (iii)	

6 (iv)																				

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