

Write your name here

Surname

Other names

Pearson Edexcel
Level 3 GCE

Centre Number

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Candidate Number

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Further Mathematics

Advanced Subsidiary

Further Mathematics options

**Paper 2K: Decision Mathematics 1 and
Decision Mathematics 2**

Sample Assessment Material for first teaching September 2017

Paper Reference

8FM0/2K

Answer Book

Do not return the question paper with the answer book.

Total Marks

Turn over ►

S58536A

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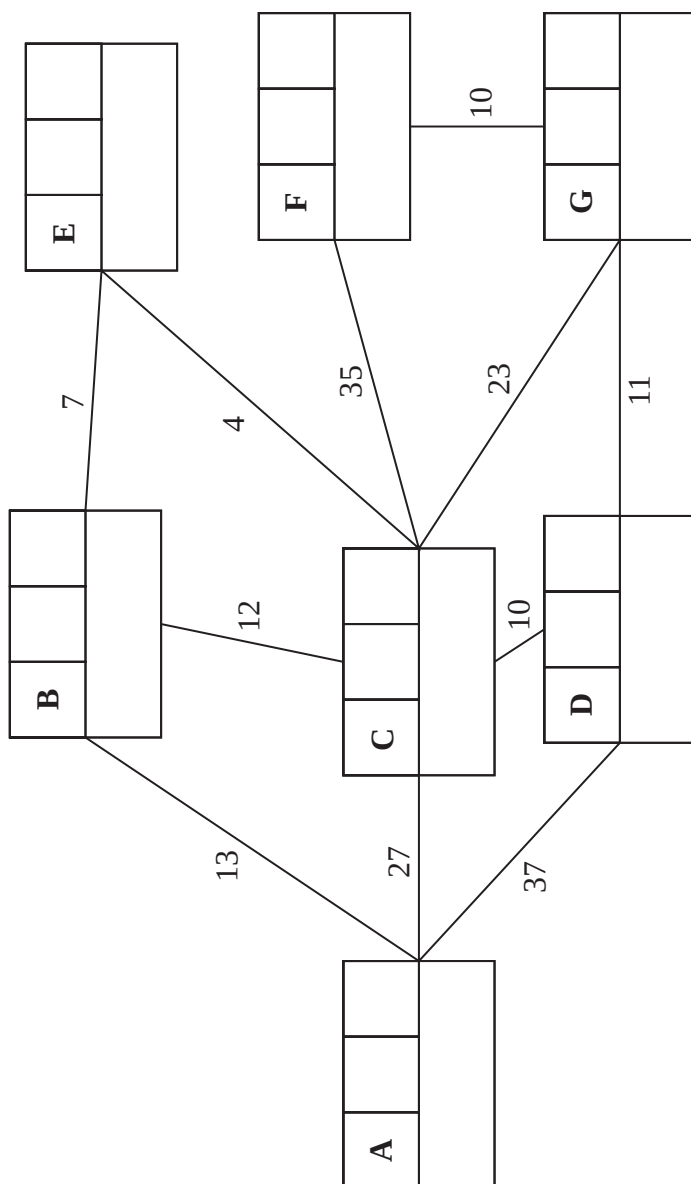
1/1/1/1/




Pearson

1.

SECTION A



Key:

Vertex	Order of labelling	Final values
Working value		

Shortest path: _____

Length of shortest path: _____

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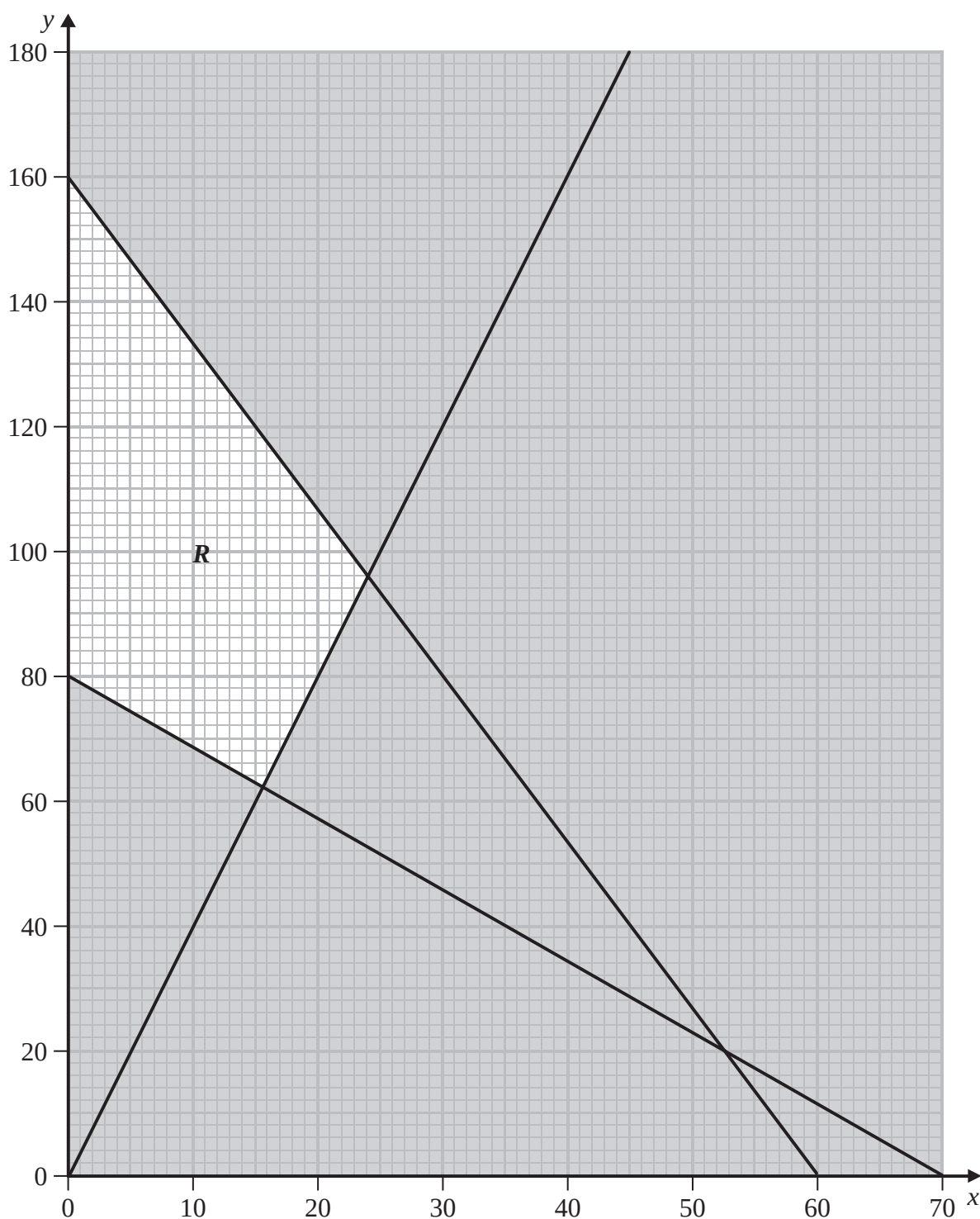
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(Total for Question 1 is 12 marks)

2.



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3. (a) and (b)

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(Total for Question 3 is 7 marks)

4.

(Total for Question 4 is 9 marks)

5.

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(Total for Question 5 is 5 marks)

TOTAL FOR SECTION A IS 40 MARKS

6.

	P	Q	R	S	T
A	32	32	35	34	33
B	28	35	31	37	40
C	35	29	33	36	35
D	36	30	34	33	35
E	30	31	29	37	36
F	29	28	32	31	34

	P	Q	R	S	T	
A						
B						
C						
D						
E						
F						

	P	Q	R	S	T	
A						
B						
C						
D						
E						
F						

	P	Q	R	S	T	
A						
B						
C						
D						
E						
F						

	P	Q	R	S	T	
A						
B						
C						
D						
E						
F						

This image shows a full page of blank, lined paper. It features approximately 20 evenly spaced horizontal grey lines across its entire width, providing a template for handwriting practice or general note-taking. The margins are consistent on all sides.

	P	Q	R	S	T	
A						
B						
C						
D						
E						
F						

	P	Q	R	S	T	
A						
B						
C						
D						
E						
F						

	P	Q	R	S	T	
A						
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C						
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	P	Q	R	S	T	
A						
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F						

	P	Q	R	S	T	
A						
B						
C						
D						
E						
F						

(Total for Question 6 is 9 marks)

7. (a)

Number of lines	1	2	3	4	5	6	7
Maximum number of regions	2	4	7	11			

(Total for Question 7 is 5 marks)

8.

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Question 8 continued

(d)

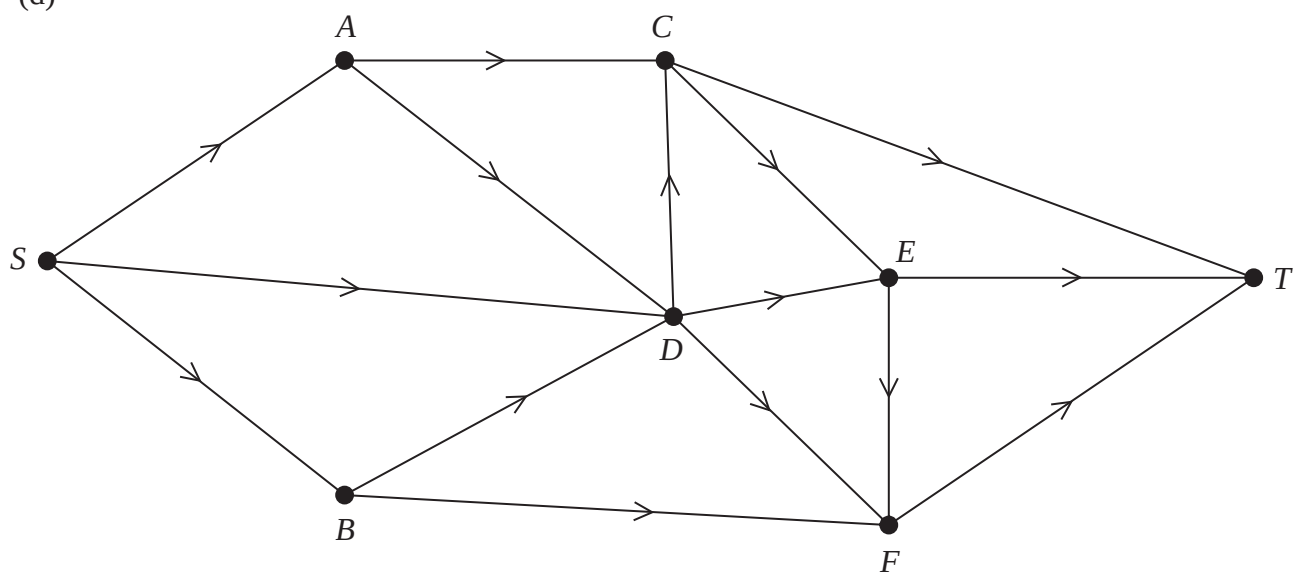


Diagram 1

(Total for Question 8 is 14 marks)

9.

	<i>B</i> plays 1	<i>B</i> plays 2	<i>B</i> plays 3
<i>A</i> plays 1	4	1	2
<i>A</i> plays 2	2	4	3

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

Question 9 continued

(Total for Question 9 is 12 marks)

TOTAL FOR SECTION B IS 40 MARKS
TOTAL FOR PAPER IS 80 MARKS

