

Please check the examination details below before entering your candidate information

Candidate surname

Other names

**Pearson Edexcel**  
**Level 3 GCE**

Centre Number

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Candidate Number

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Specimen Paper

(Time: 1 hour 30 minutes)

Paper Reference **9FM0/3D**

**Further Mathematics**  
**Advanced**  
**Paper 3D: Decision Mathematics 1**

**Answer book**

Do not return the question paper with the answer book.

Total Marks

Turn over ►

**S61299A**

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1/1/1/1/



  
**Pearson**



Question 1 continued

Lined area for writing the answer to Question 1.

(Total for Question 1 is 5 marks)



S 6 1 2 9 9 A 0 3 2 0

2.

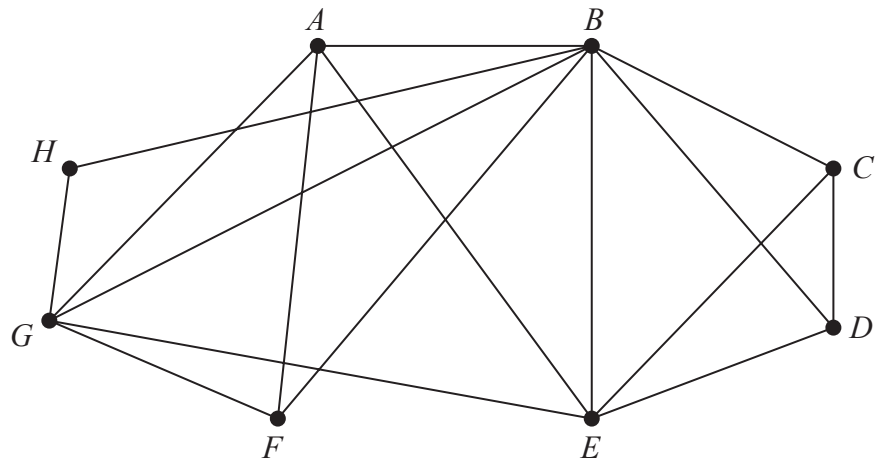


Figure 1

DO NOT WRITE IN THIS AREA

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DO NOT WRITE IN THIS AREA



Question 2 continued

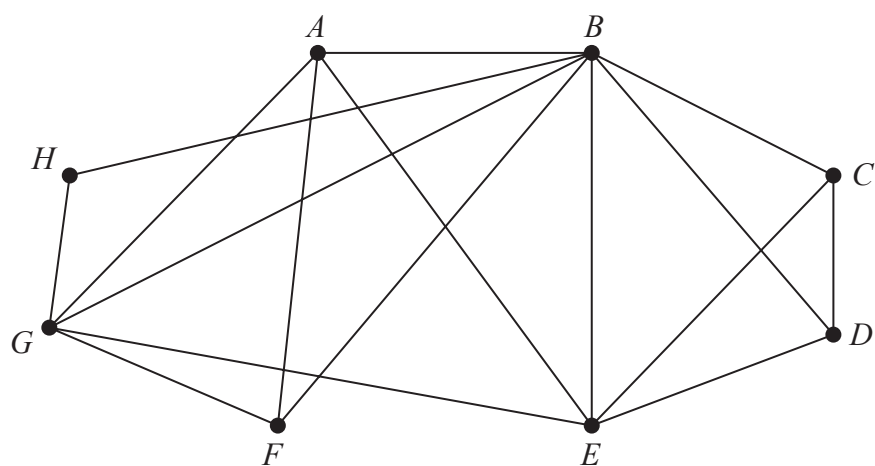


Figure 1

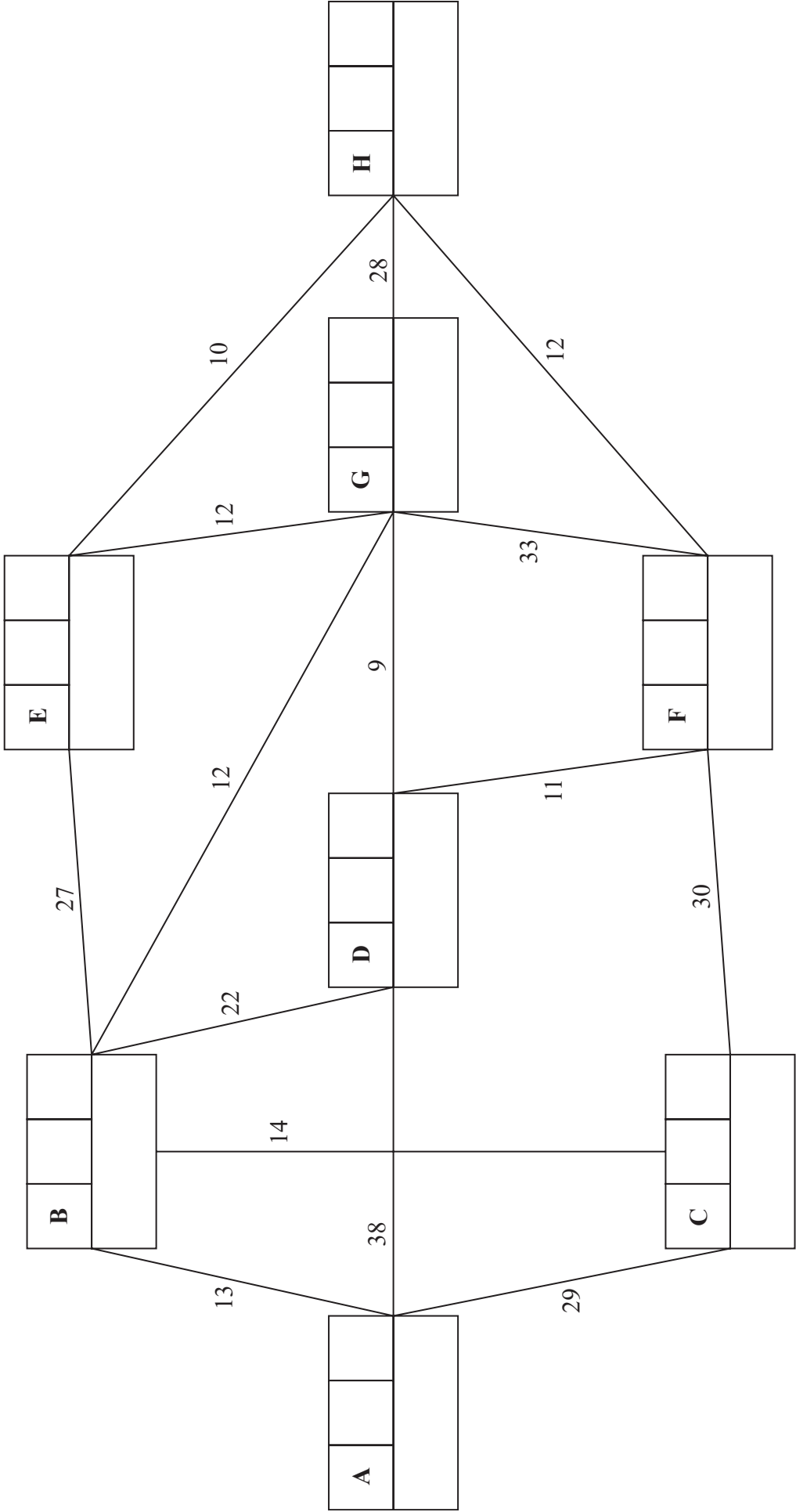
(Total for Question 2 is 6 marks)



S 6 1 2 9 9 A 0 5 2 0



3.



Key:

Vertex	Order of labelling	Final value
Working values		

Time required to travel quickest route from A to H: \_\_\_\_\_

DO NOT WRITE IN THIS AREA

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DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

Question 3 continued

Lined area for writing the answer to Question 3 continued.

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DO NOT WRITE IN THIS AREA

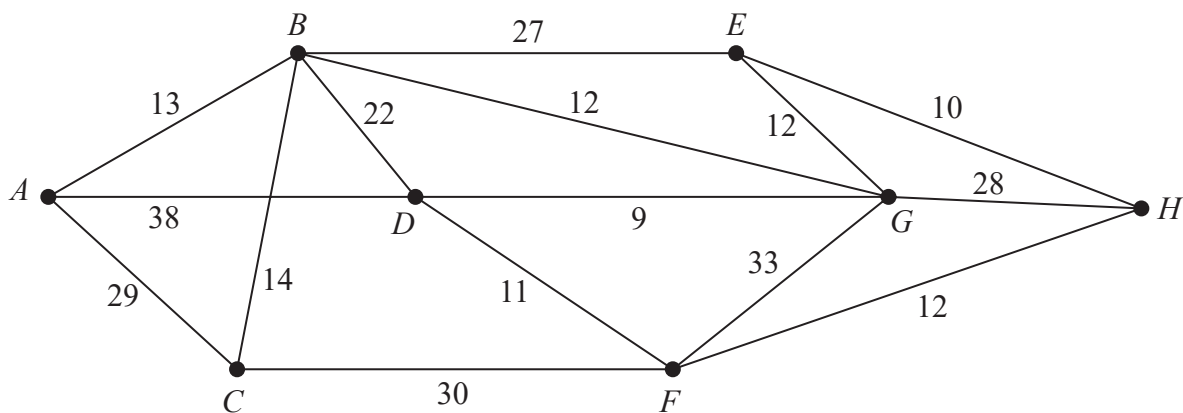
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S 6 1 2 9 9 A 0 7 2 0

Question 3 continued



DO NOT WRITE IN THIS AREA

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DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA





Question 3 continued

Lined area for writing the answer to Question 3.

(Total for Question 3 is 13 marks)



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**DO NOT WRITE IN THIS AREA**

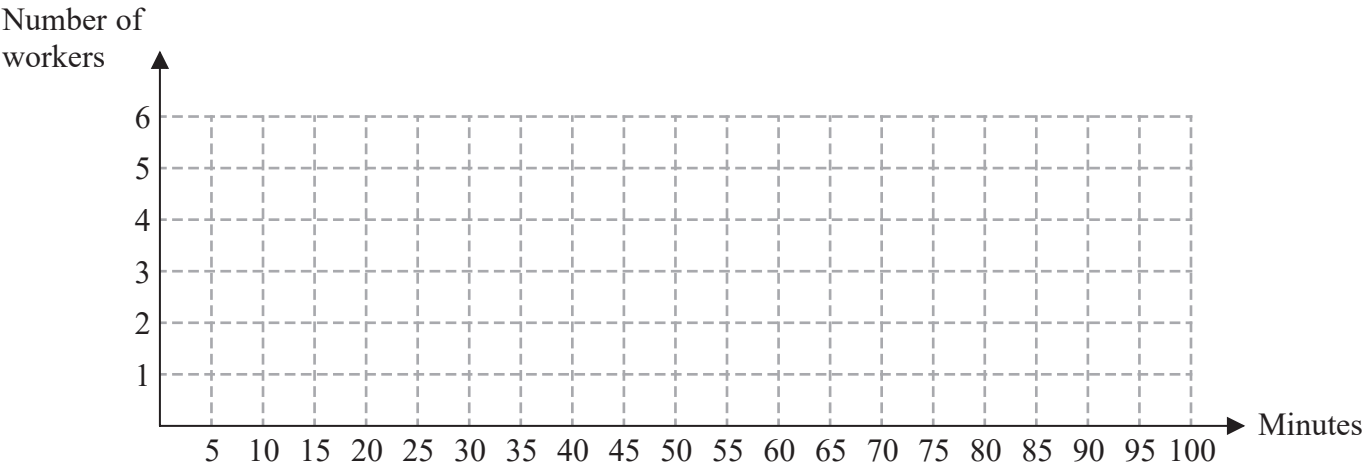
**DO NOT WRITE IN THIS AREA**

**DO NOT WRITE IN THIS AREA**

**DO NOT WRITE IN THIS AREA**

Question 4 continued

Blank lined area for writing.



Blank lined area for writing.

(Total for Question 4 is 10 marks)



5.

(b)

b.v.	$x$	$y$	$z$	$s_1$	$s_2$	$s_3$	Value
							400
							350
							75
$P$							

(c)

b.v.	$x$	$y$	$z$	$s_1$	$s_2$	$s_3$	Value	Row Ops
$P$								

b.v.	$x$	$y$	$z$	$s_1$	$s_2$	$s_3$	Value	Row Ops
$P$								

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

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DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



Question 5 continued

Lined area for writing the answer to Question 5.

(Total for Question 5 is 16 marks)



6. (a)

Initial Distance table

	A	B	C	D	E
A					
B					
C					
D					
E					

Initial Route table

	A	B	C	D	E
A					
B					
C					
D					
E					

(b) 1<sup>st</sup> Iteration

Distance table

	A	B	C	D	E
A					
B					
C					
D					
E					

Route table

	A	B	C	D	E
A					
B					
C					
D					
E					

2<sup>nd</sup> Iteration

Distance table

	A	B	C	D	E
A					
B					
C					
D					
E					

Route table

	A	B	C	D	E
A					
B					
C					
D					
E					

Spare tables

Distance table

	A	B	C	D	E
A					
B					
C					
D					
E					

Route table

	A	B	C	D	E
A					
B					
C					
D					
E					

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

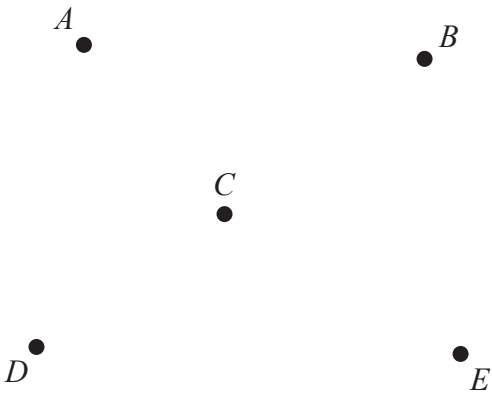
DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



Question 6 continued

(c)



Handwriting practice lines consisting of 20 horizontal lines.



Question 6 continued

Lined area for writing the answer to Question 6.

DO NOT WRITE IN THIS AREA

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DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA





Question 6 continued

Handwriting practice area with 30 horizontal lines.

(Total for Question 6 is 15 marks)



7.

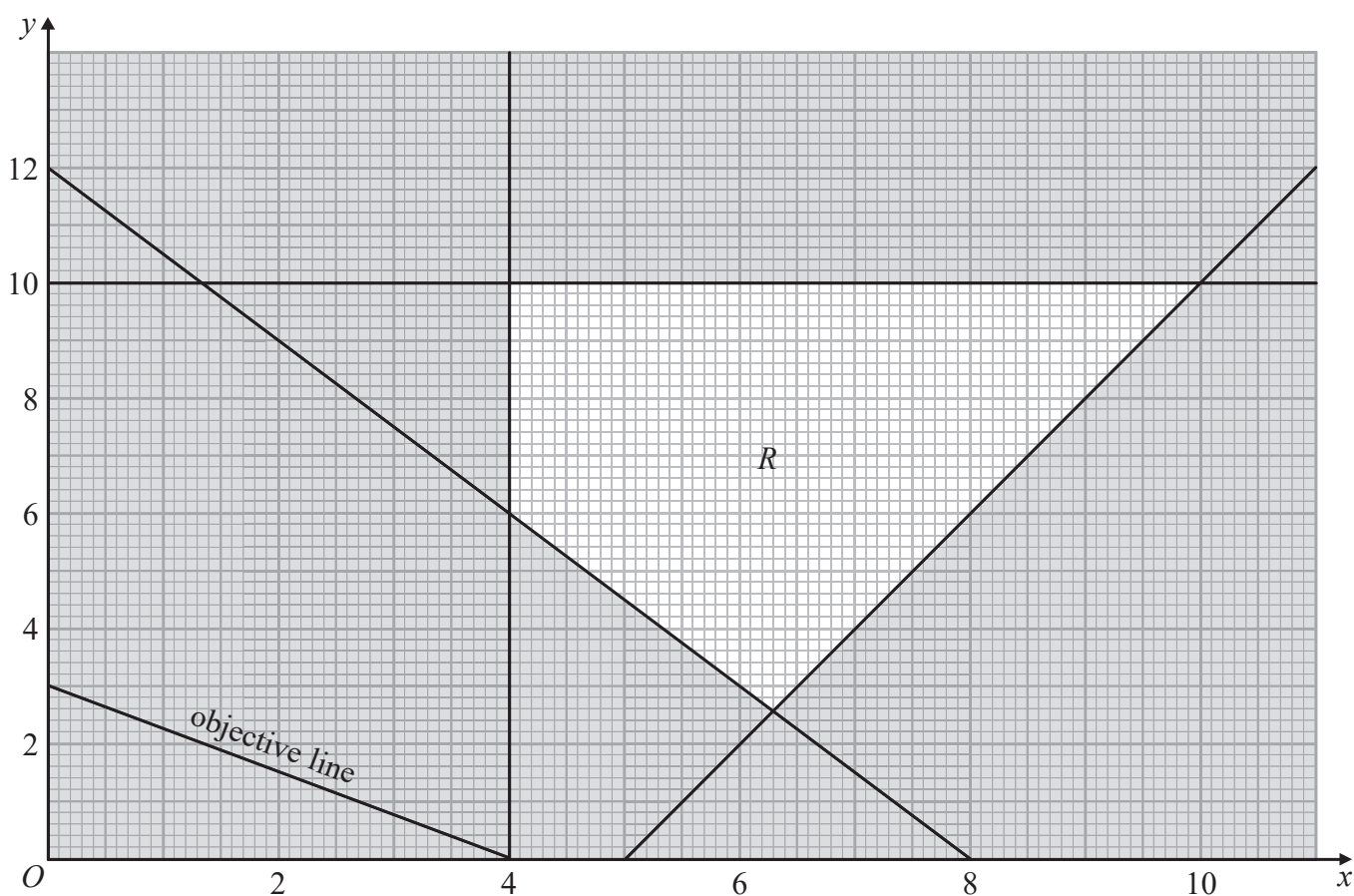


Figure 5



DO NOT WRITE IN THIS AREA

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Question 7 continued

Lined area for writing the answer to Question 7.

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DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA



S 6 1 2 9 9 A 0 1 9 2 0

Question 7 continued

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

DO NOT WRITE IN THIS AREA

b.v.									Value

(Total for Question 7 is 10 marks)

TOTAL FOR PAPER IS 75 MARKS

