

Please check the examination details below before entering your candidate information

Candidate surname

Other names

Centre Number

Candidate Number

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Pearson Edexcel Level 3 GCE

Friday 17 May 2024

Afternoon

Paper
reference

8FM0/27

Further Mathematics

Advanced Subsidiary

Further Mathematics options

27: Decision Mathematics 1

(Part of options D, F, H and K)

D1 Answer Book

Do not return the question paper with the answer book.

Total Marks

Turn over ►

P75677A

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F:1/1/1/




Pearson

1.

4 6.5 7 1.3 2 5 1.5 6 4.5 6 1

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Question 1 continued

(Total for Question 1 is 9 marks)



2.

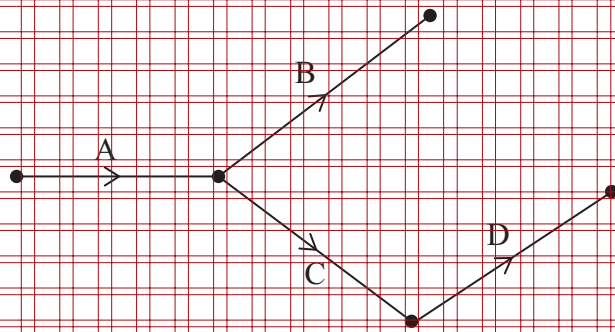
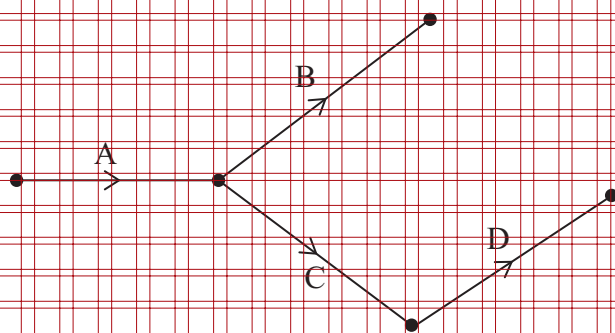


Diagram 1

Use this diagram only if you need to redraw your activity network.



Copy of Diagram 1

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Question 2 continued

Key:

Early event time
Late event time

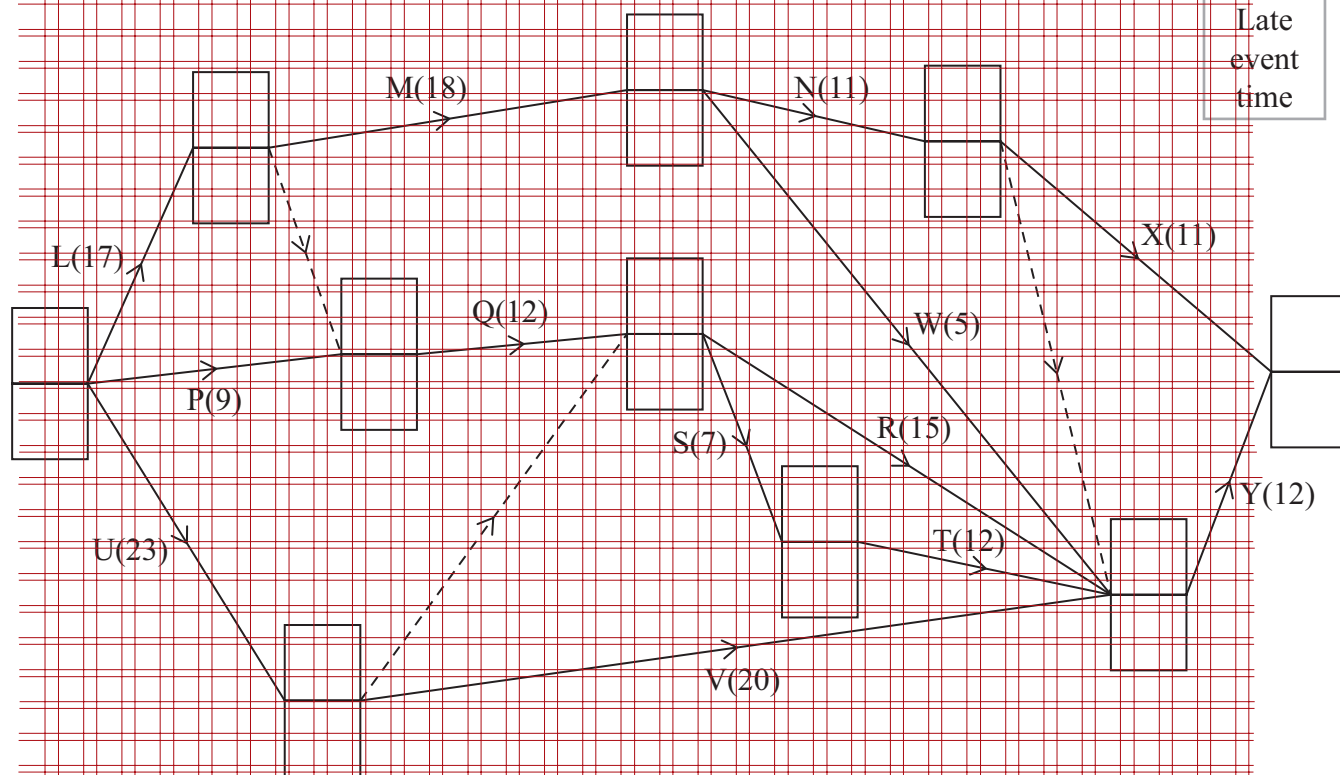


Diagram 2

(Total for Question 2 is 8 marks)



3.

6

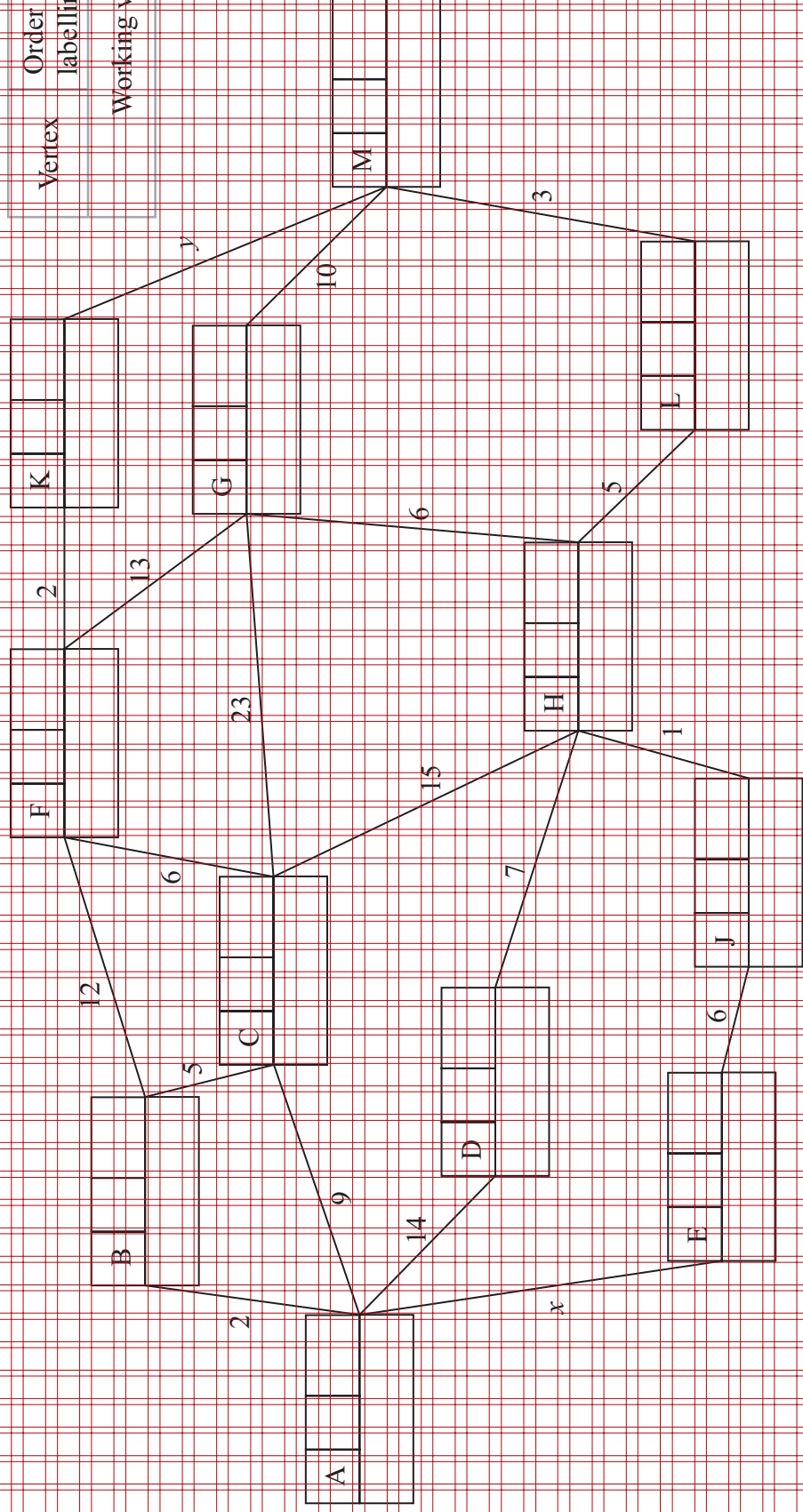


P 7 5 6 7 7 A 0 6 1 2



Key:

Vertex	Order of labelling	Final value
Working values		



Shortest route from A to M:

Length of shortest route from A to M:

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Question 3 continued

(Total for Question 3 is 11 marks)



4.

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Question 4 continued

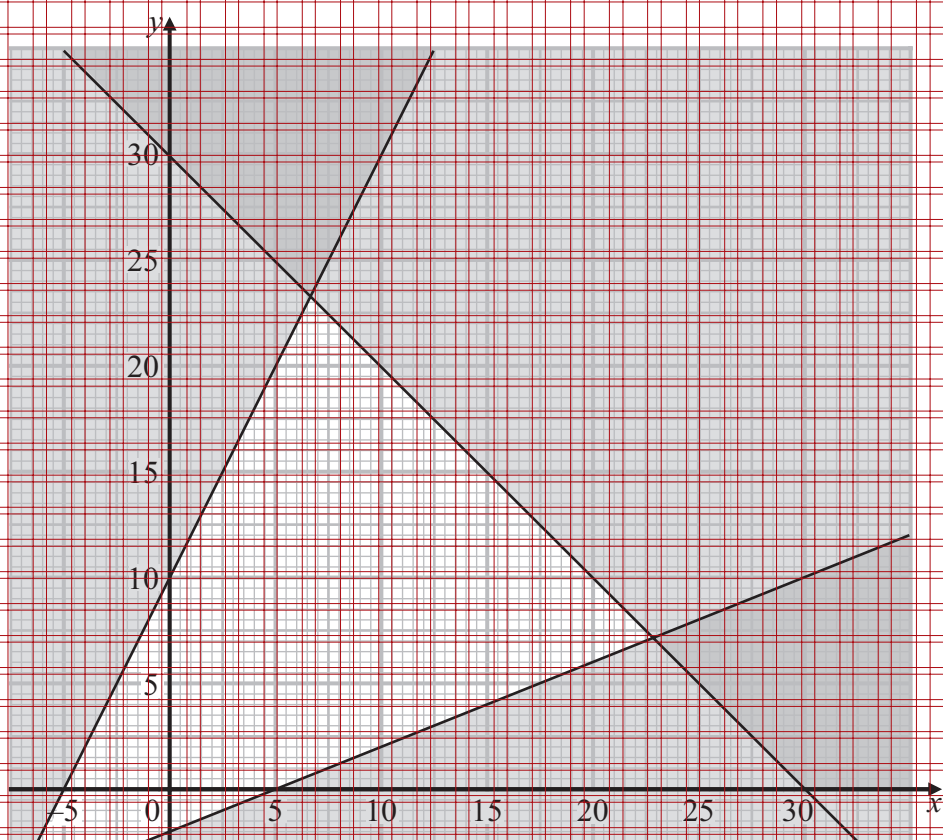


Diagram 1

There is a copy of Diagram 1 on page 11 if you need to redraw your graph.



Question 4 continued

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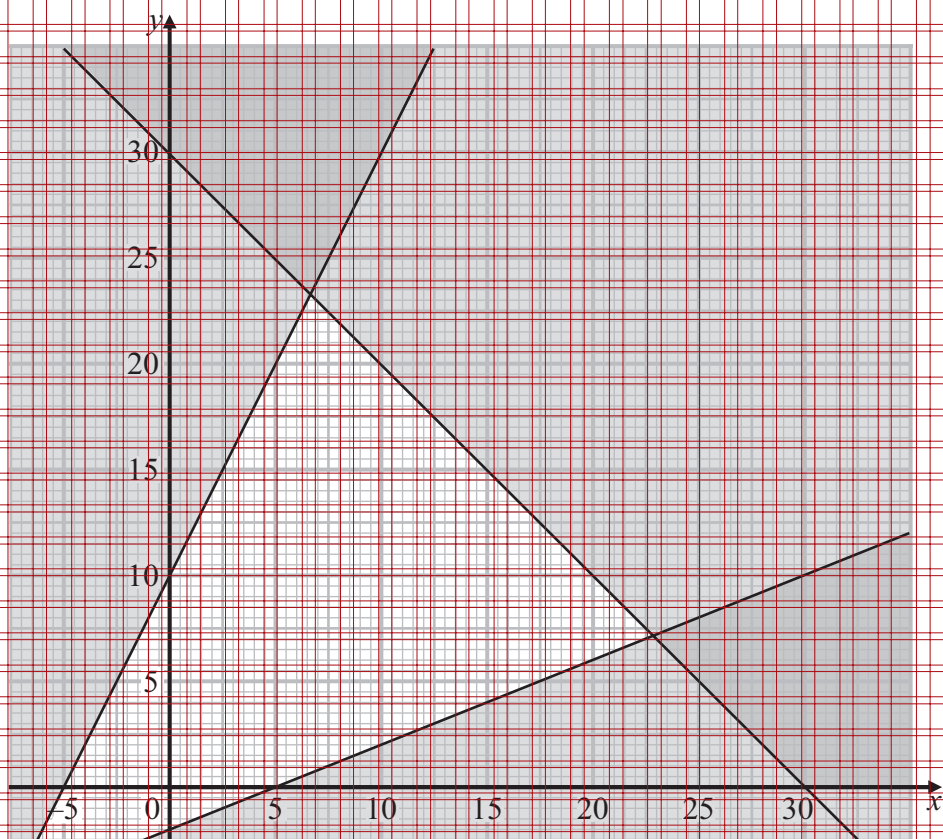
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Question 4 continued

Use this diagram only if you need to redraw your graph.



Copy of Diagram 1



P 7 5 6 7 7 A 0 1 1 1 2

Question 4 continued

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(Total for Question 4 is 12 marks)

TOTAL FOR DECISION MATHEMATICS 1 IS 40 MARKS

