

Centre No.						Paper Reference						Surname	Initial(s)	
Candidate No.						6	6	8	9	/	0	1	Signature	

Paper Reference(s)

**6689/01**

# Edexcel GCE

## Decision Mathematics D1

### Advanced/Advanced Subsidiary

Friday 20 May 2011 – Afternoon

## Answer Book

**Do not return the question paper with the answer book**

Examiner's use only

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Team Leader's use only

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Question Number	Leave Blank
1	
2	
3	
4	
5	
6	
7	
8	
Total	

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P 3 8 1 6 6 A 0 1 2 0

*Turn over*











Question 2 continued

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(c)



Diagram 1

(d)

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(Total 8 marks)

Q2



3. (a)

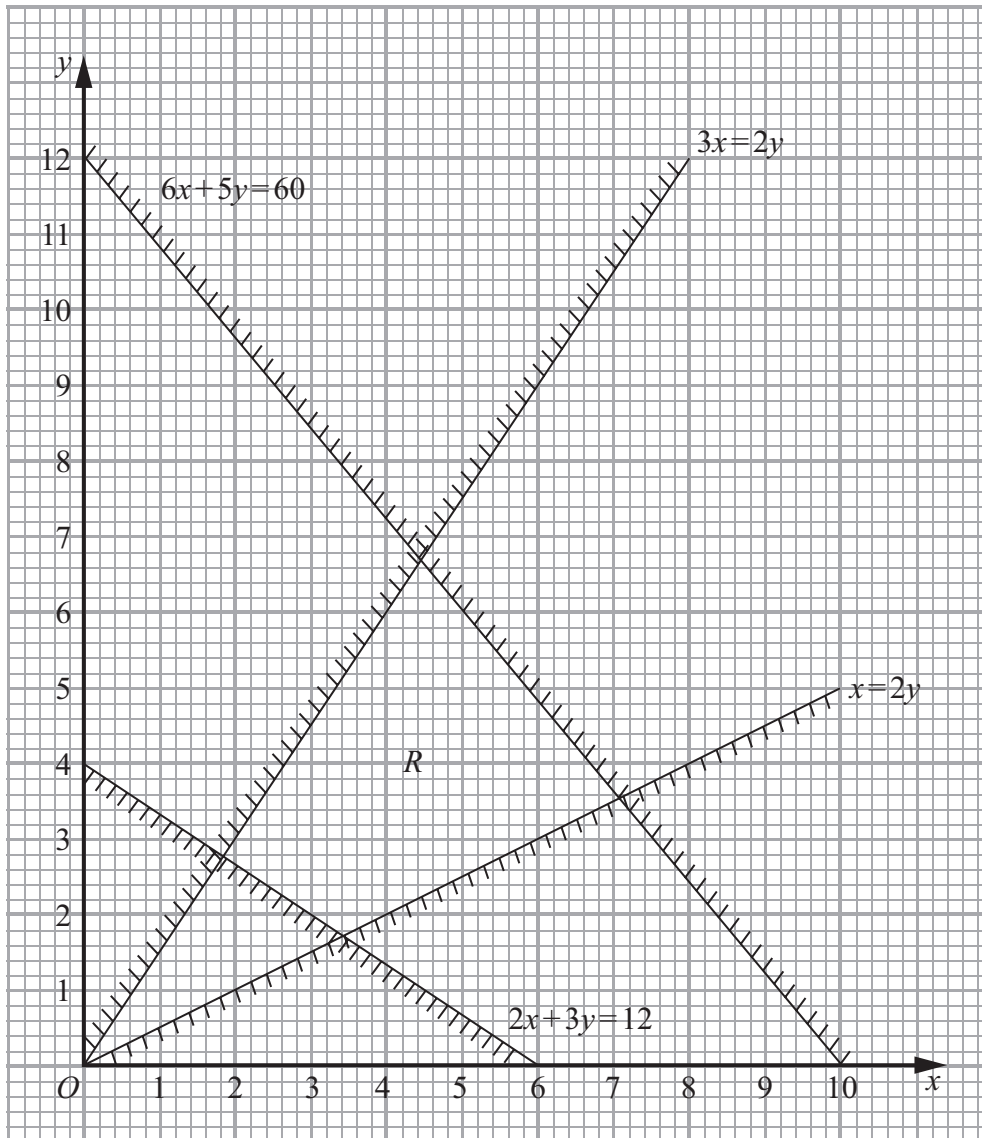


Figure 2







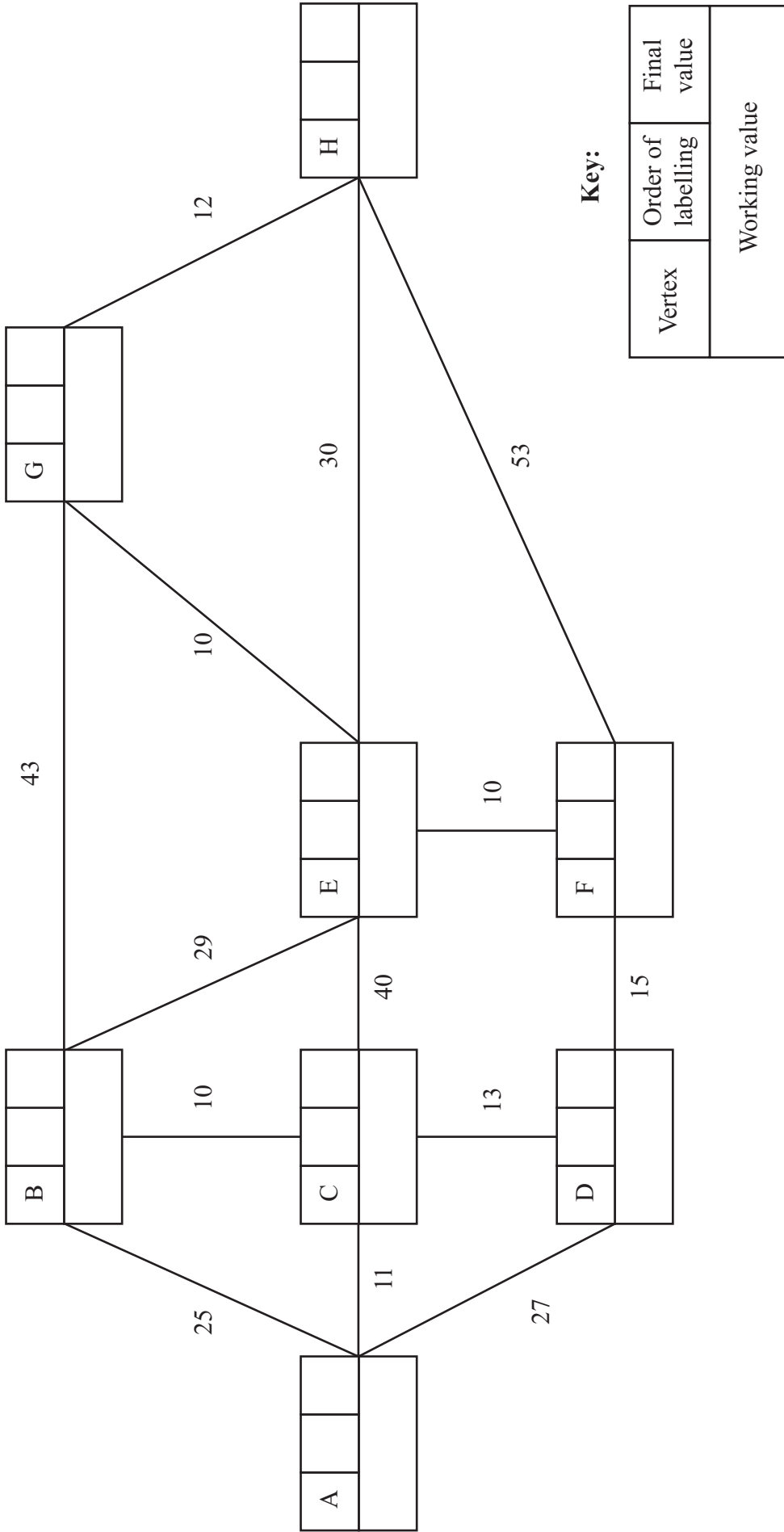








6.



**Key:**

Vertex	Order of labelling	Final value
Working value		



**Question 6 continued**

Shortest route: \_\_\_\_\_

Length of shortest route: \_\_\_\_\_

Blank area with vertical lines for writing the answer.

Q6

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**(Total 10 marks)**



7. (a)

Activity	Preceded by
A	-
B	-
C	
D	B

Activity	Preceded by
E	
F	B
G	B
H	

Activity	Preceded by
I	
J	
K	
L	

(b)

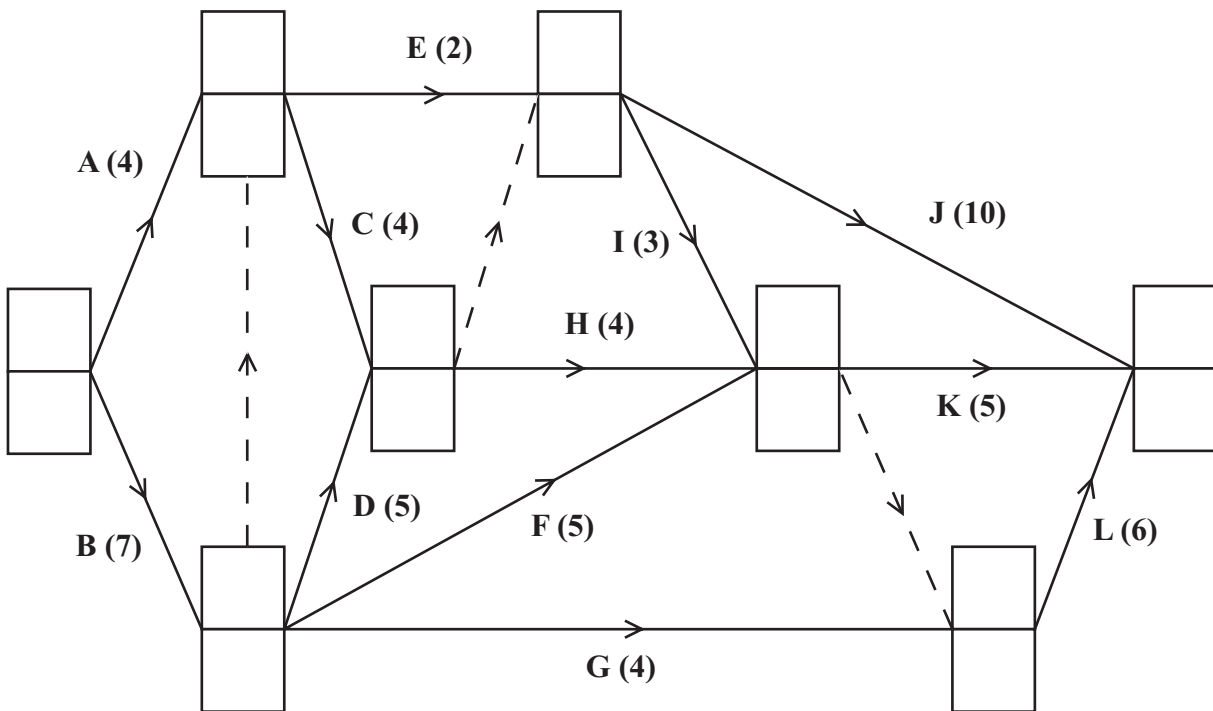


Diagram 1

Key:

Early event time
Late event time

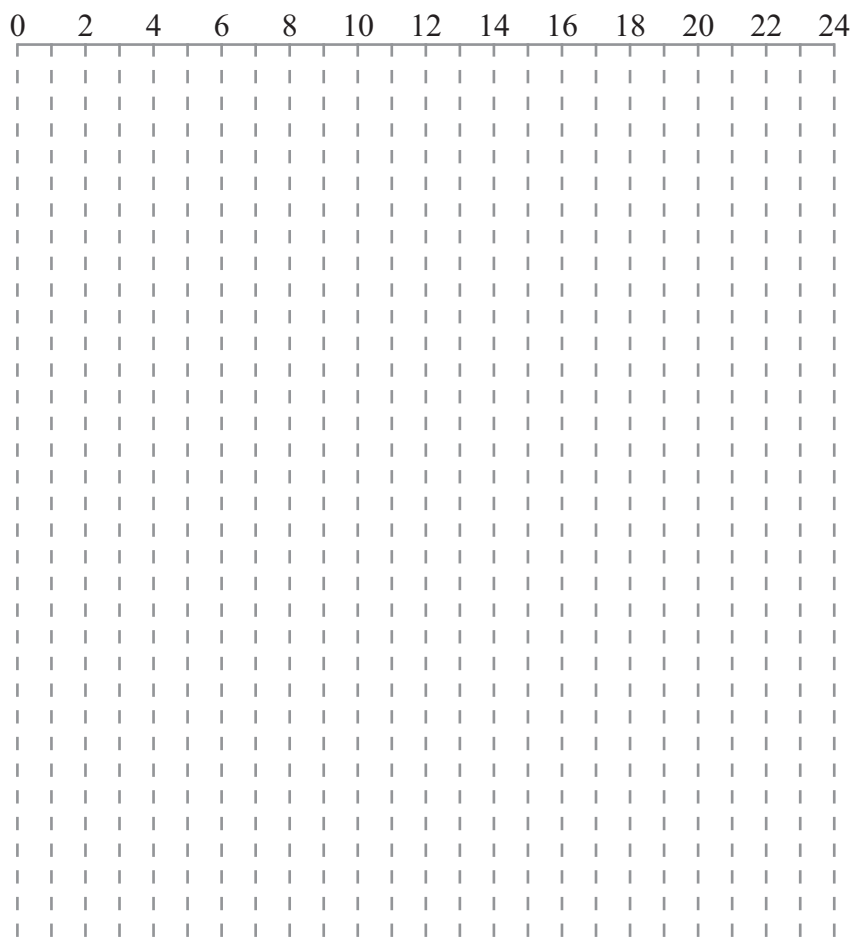




**Question 7 continued**

(c) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(d)



(e) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**(Total 16 marks)**

**Q7**

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