

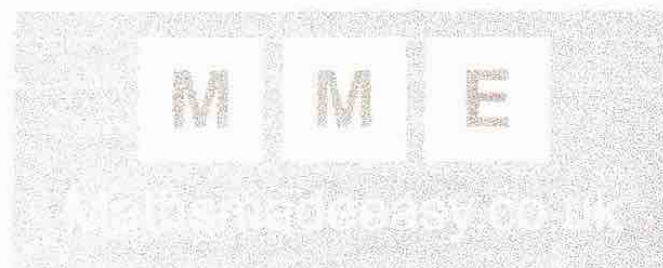
AQA, OCR, Edexcel

GCSE

GCSE Maths

Loci & Constructions

Name:



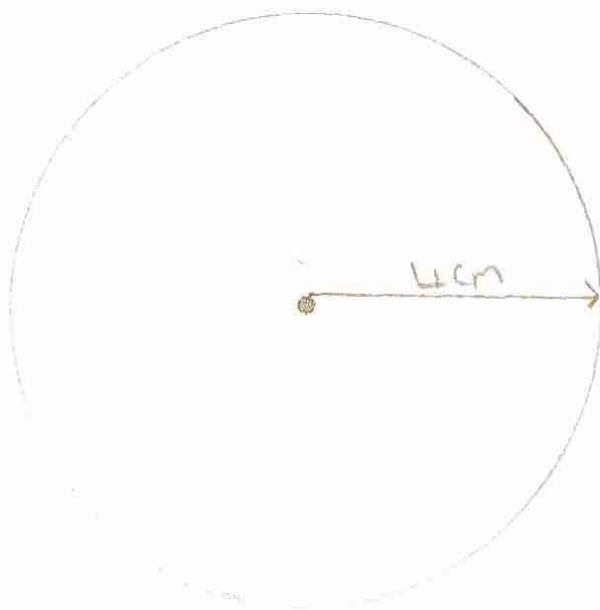
Guidance

1. Read each question carefully.
2. Don't spend too long on each question.
3. Attempt every question.
4. Always show your workings.

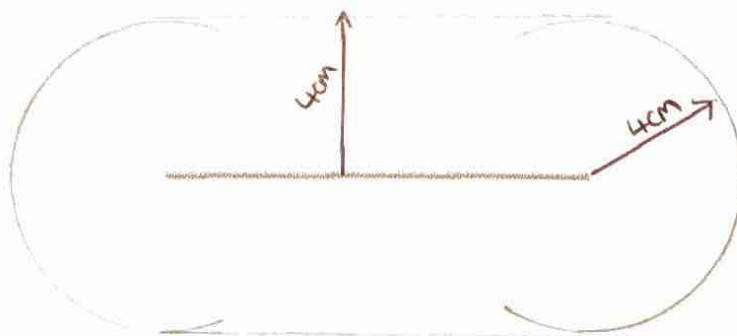
Revise GCSE Maths:

www.MathsMadeEasy.co.uk/gcse-maths-revision/

1. Draw the locus of all points that are 4cm from the point below.

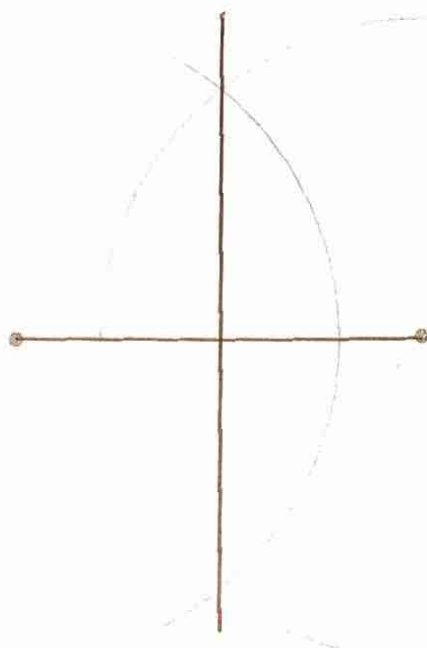


Draw the locus of all points that are 2cm from the line segment below.



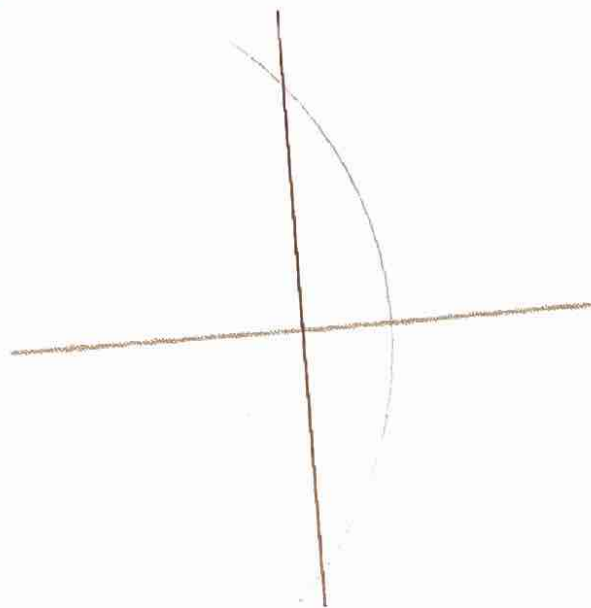
(1 mark, 2 marks)

2. Draw the locus of all points that are equidistant from the two points below.

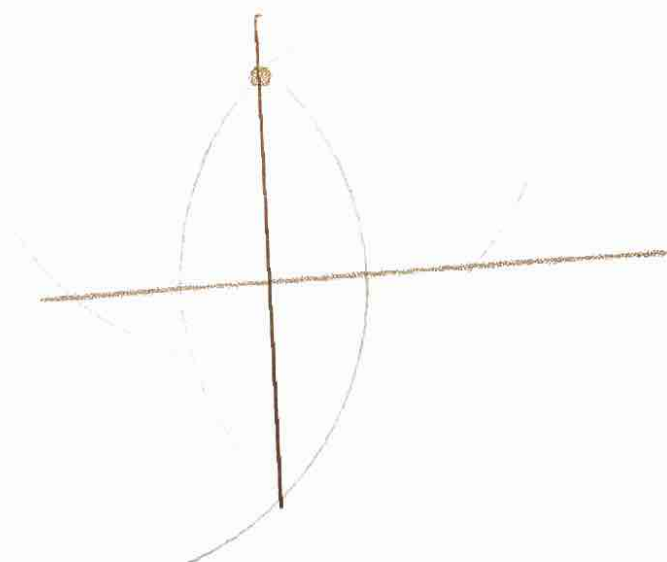


(2 marks)

3. Construct the perpendicular bisector of the line below.



Construct a perpendicular to the line below that passes through the point shown.

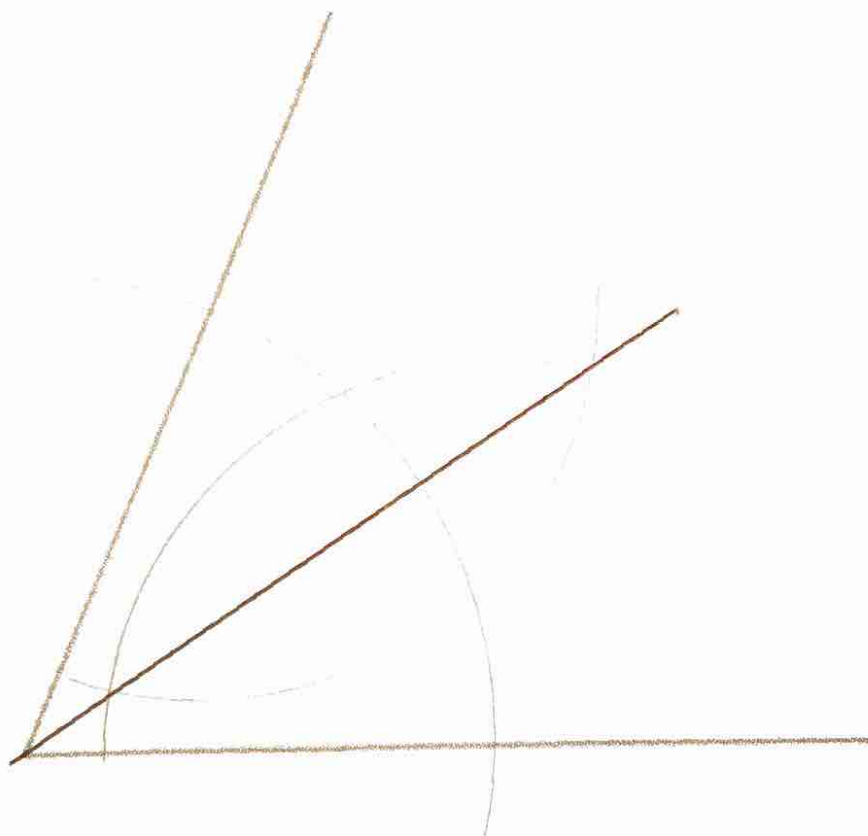


(2 marks, 2 marks)

4. Define the bisector of an angle.

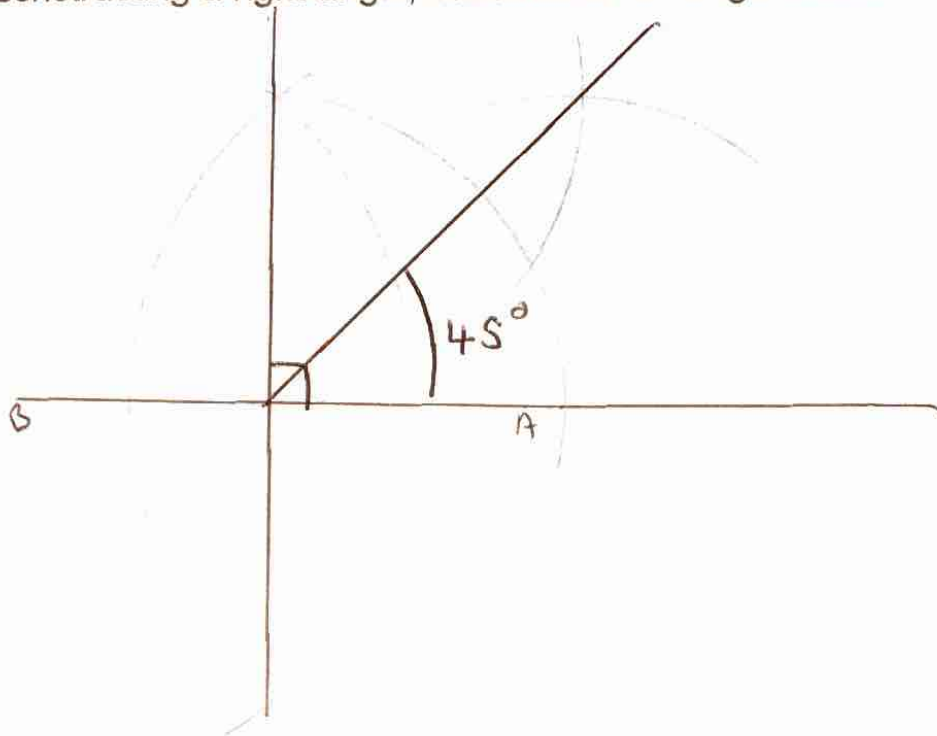
The bisector of an angle is a line segment which divides the angle in two equal parts.

Bisect the angle below.

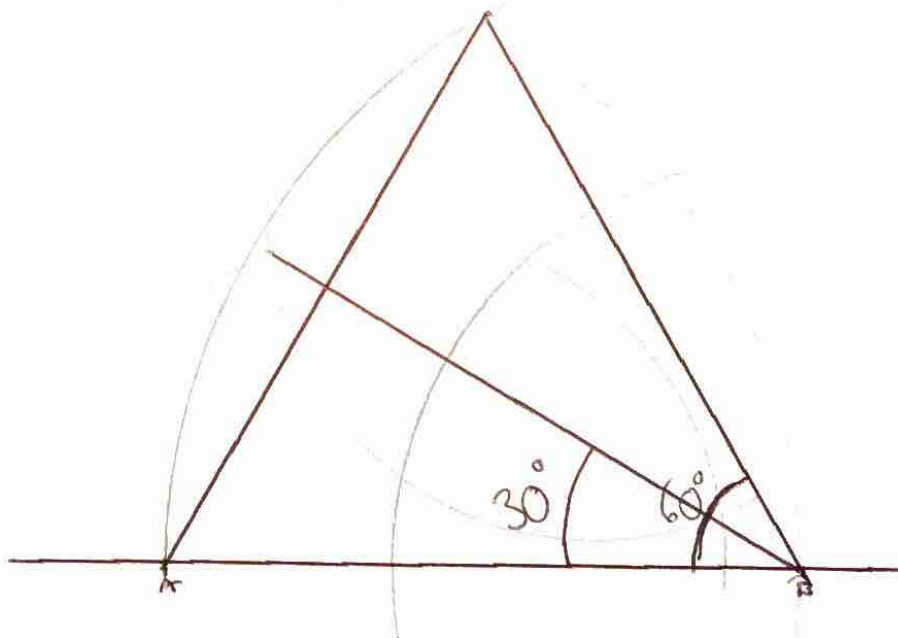


(1 mark, 2 marks)

5. By first constructing a right-angle, construct a 45° angle below.

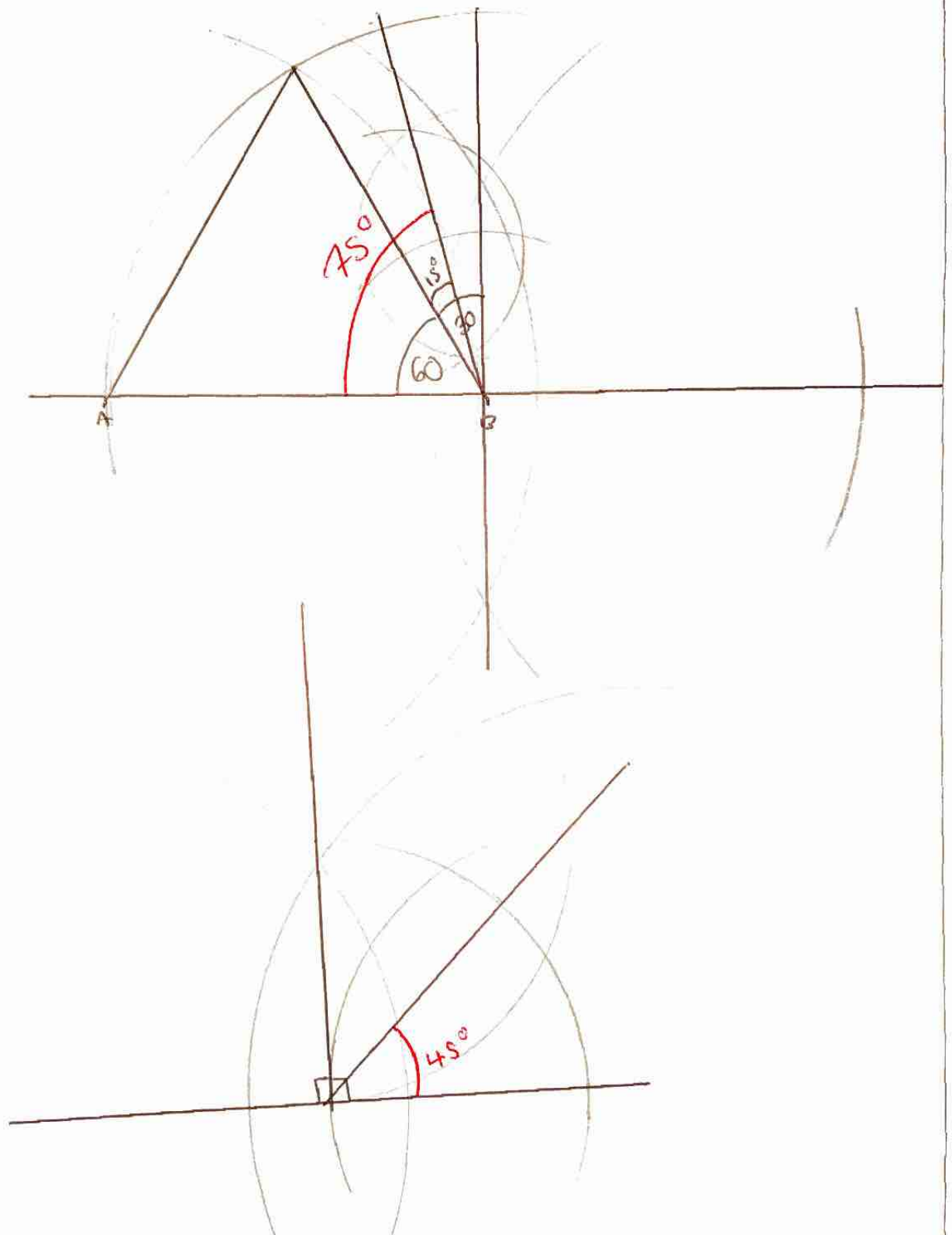


By first constructing a 60° angle, construct a 30° angle below.



(3 marks, 3 marks)

6. Construct a triangle that has a 45° and a 75° angle.

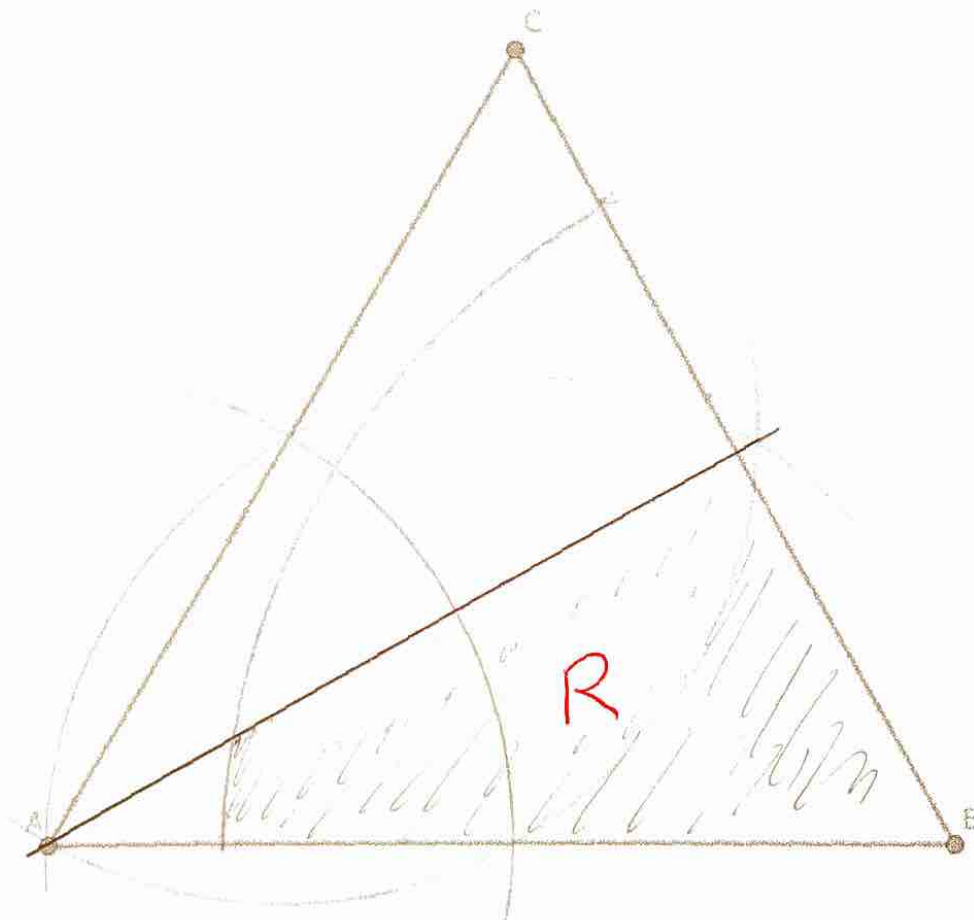


(5 marks)

7. In the triangle below, label the region R that satisfies the following:

R is less than 10cm from B

R is closer to AC than AB



(4 marks)

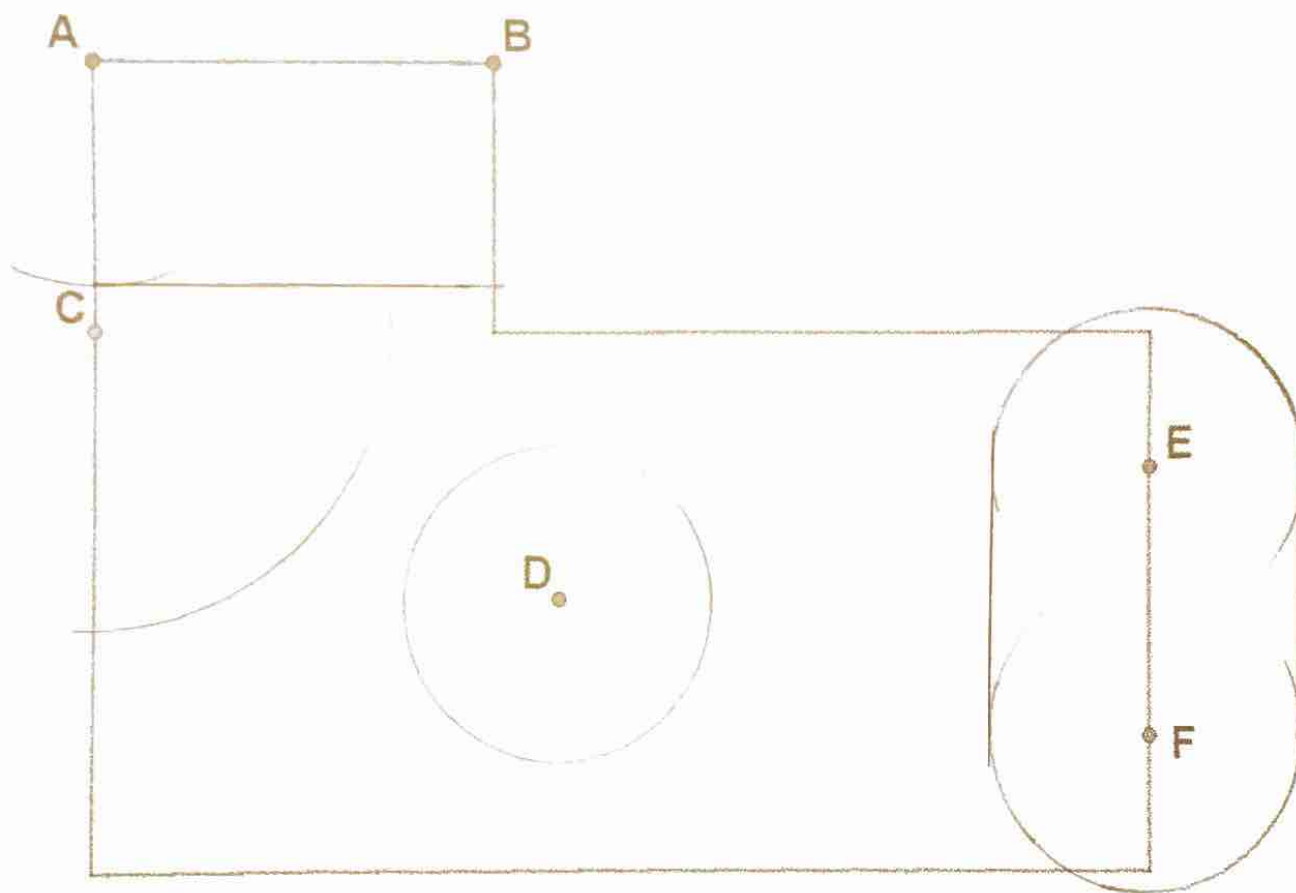
8. The diagram below shows a plan for a garden. Construct the following features in the garden.

Decking that covers the region that is 3m from AB and that also covers the region that is 4m from C.

A pond covers the region 2m from D.

Additional decking that covers the region 2m from EF

The scale for the plan is 1m = 1cm



(5 marks)