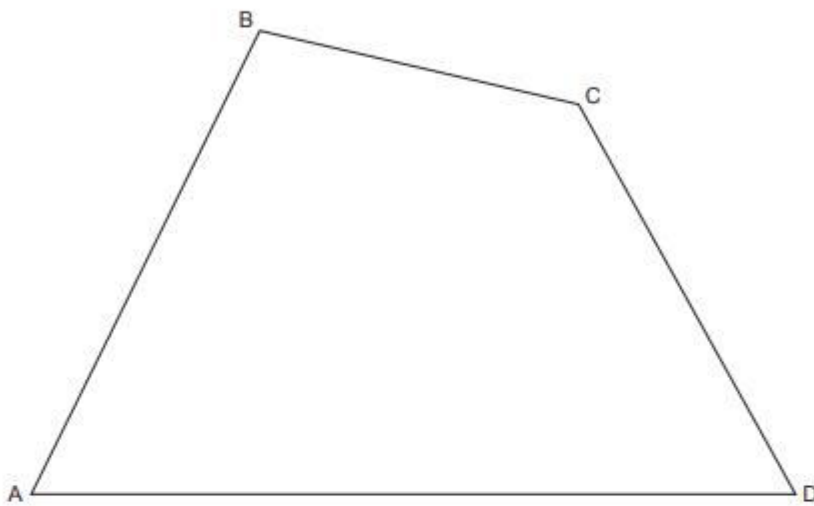


LOCI AND CONSTRUCTION

OCR GCSE – Tuesday 3 November 2020 – Paper 4 (Calculator) Higher Tier

1.

5 ABCD is a quadrilateral.

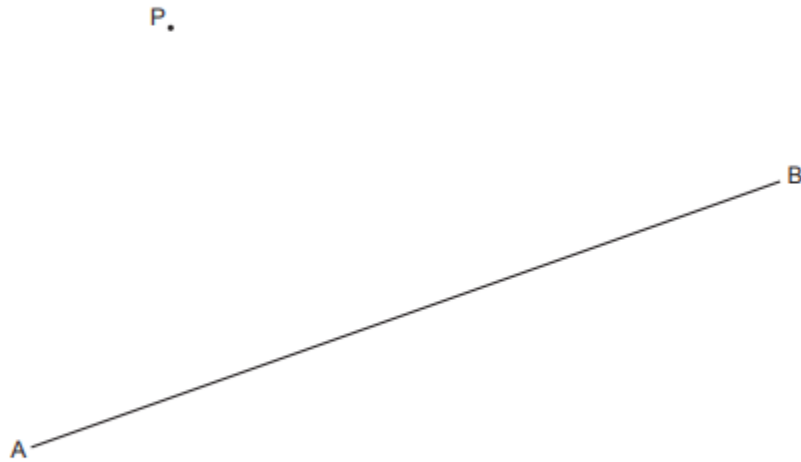


- (a) Construct the bisector of angle ABC.
Show all your construction lines. [2]
- (b) Construct the perpendicular bisector of BC.
Show all your construction lines. [2]
- (c) Shade the region which is
- nearer to BC than to AB
 - and
 - nearer to B than to C.
- [1]

OCR GSCE – Tuesday 11 June 2019 – Paper 6 (Calculator) Higher Tier

2.

- 7 Construct the perpendicular from the point P to the line AB.
Show all of your construction lines.

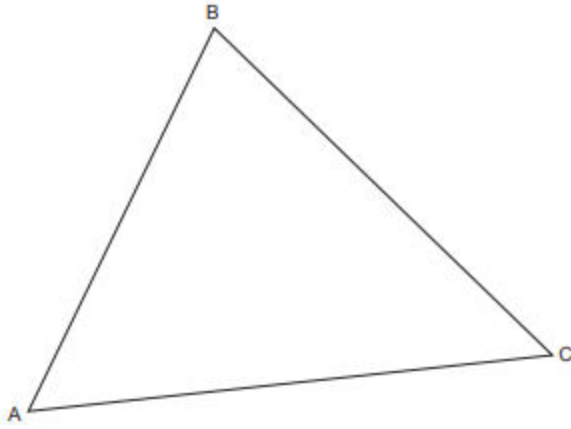


[2]

OCR GSCE – Tuesday 6 November 2018 – Paper 4 (Calculator) Higher Tier

3.

7 The diagram shows triangle ABC.



(a) Construct the bisector of angle BAC. [2]

(b) Construct the perpendicular bisector of AC. [2]

(c) Shade the region inside triangle ABC that is
• nearer to AC than to AB
• nearer to A than to C. [1]

OCR GSCE – Tuesday 2 November 2017 – Paper 4 (Calculator) Higher Tier

4.

3 Four points A, B, C and D are shown on the scale diagram below.



Scale: 1 cm represents 5 m

(a) On the diagram, construct and mark the two points that are

- the same distance from A and B
- and
- 15 m from C.

Show all your construction lines.

[5]

(b) The points A, B, C and D represent the four corners of Monty's garden. His garden is bounded by four straight fences A to B, B to C, C to D and D to A.

Monty wants to plant a tree in his garden at a place that satisfies the two conditions in part (a).

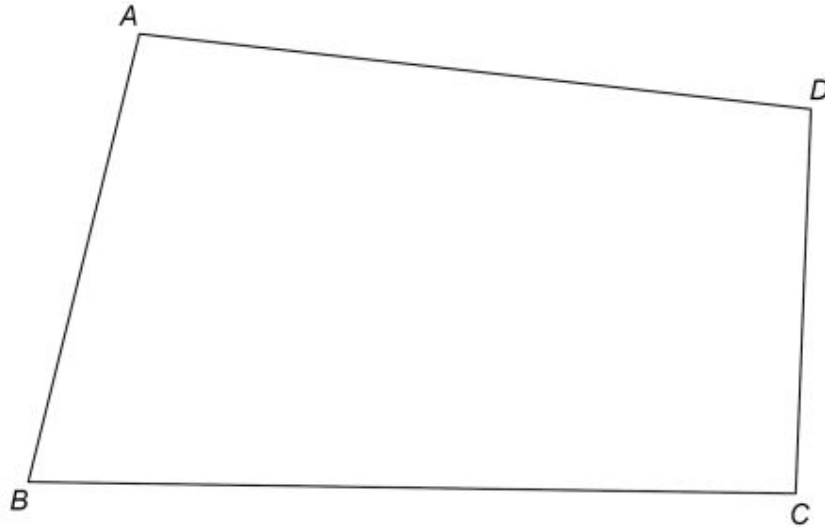
Explain why there is only one position where Monty can plant his tree.

.....

..... [1]

5.

6 $ABCD$ represents the plan of a field.



There is a path across the field that
starts at B
is the same distance from BA and BC .

Using ruler and compasses, show the position of the path.

[2 marks]

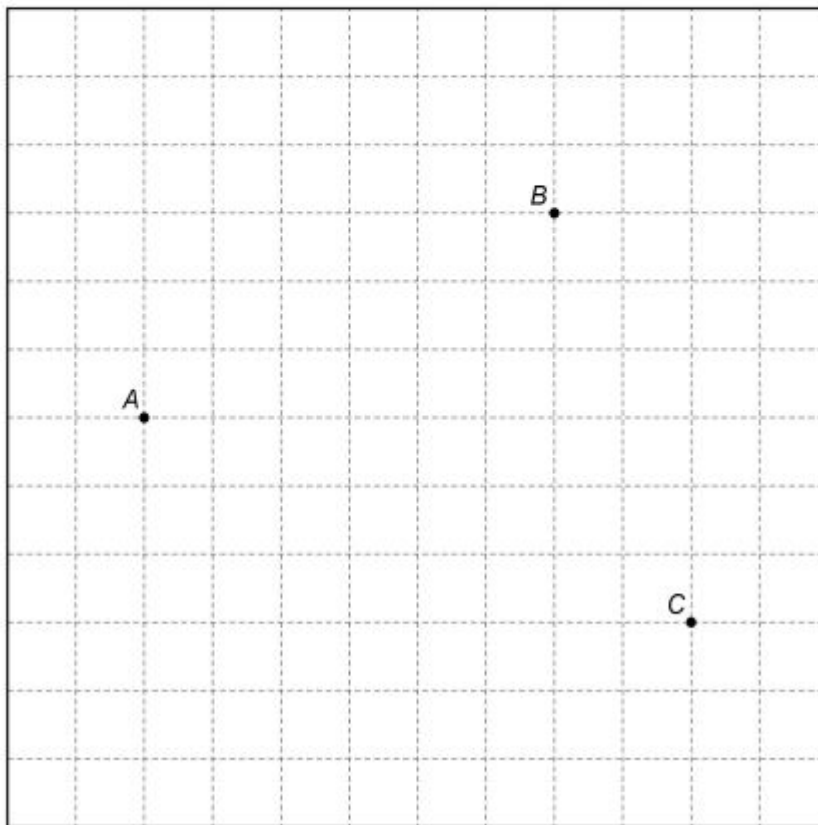
6.

- 5 Using ruler and compasses, show the region inside the grid that is less than 4 cm from *A* and nearer to *B* than to *C*.

Label the region *R*.

Show all your construction lines.

[3 marks]



AQA GCSE – Wednesday 8 November 2017 – Paper 3 (Calculator) Higher Tier

7.

10 Construct a locus of points that are the same distance from points A and B .

[2 marks]

•
 A

•
 B