



Maths-it Podcast H-19

Higher GCSE Revision

Constructions and loci

Topics

Standard ruler and compasses constructions – Constructing triangles – Drawing Loci

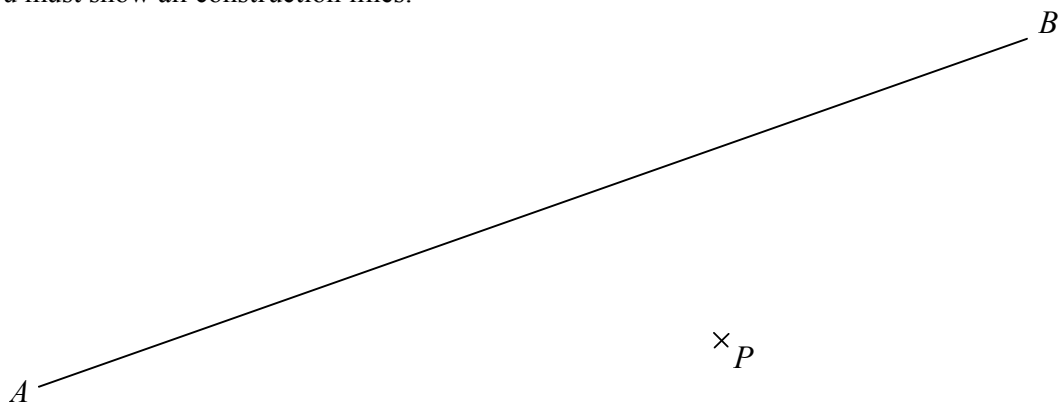
Questions

1. Use ruler and compasses to **construct** an angle of 30° at A .
You must show **all** construction lines.



(Total 3 marks)

2. Use a ruler and compasses to **construct** the perpendicular to the line segment AB that passes through the point P .
You must show all construction lines.



(Total 2 marks)



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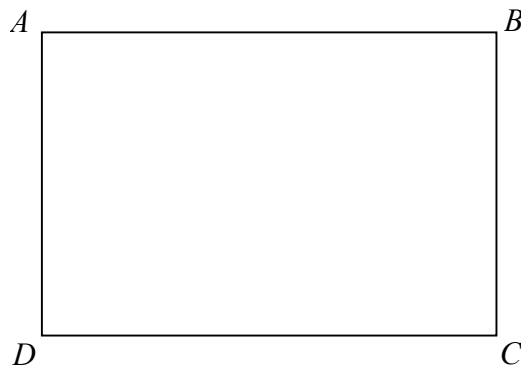
3. The diagram represents a rectangular garden $ABCD$.

The scale of the diagram is 1 cm represents 1 m.

A tree is to be planted in the garden so that it is

nearer to A than to C ,
within 5 m of point B .

On the diagram, shade the region where the tree may be planted.



(Total 3 marks)

4. Triangle ABC has the following properties,

Length $AB = 8\text{cm}$

Length $BC = 5\text{cm}$

Angle $ABC = 60^\circ$

- (a) Construct triangle ABC .



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Triangle DEF has the following properties,

Length $DE = 8\text{cm}$

Length $EF = 5\text{cm}$

Angle $FDE = 30^\circ$

- (b) Use diagrams to explain why two different triangles may be constructed using this information

(3)
(Total 6 marks)