

Name: _____

Exam Style Questions

Constructions



Corbettmaths

Ensure you have: Pencil, pen, ruler, protractor, pair of compasses and eraser

You may use tracing paper if needed

Guidance

1. Read each question carefully before you begin answering it.
2. Don't spend too long on one question.
3. Attempt every question.
4. Check your answers seem right.
5. Always show your workings

Revision for this topic

Secondary

[Video 72](#)

[Video 78](#)

[Video 73](#)

[Video 79](#)

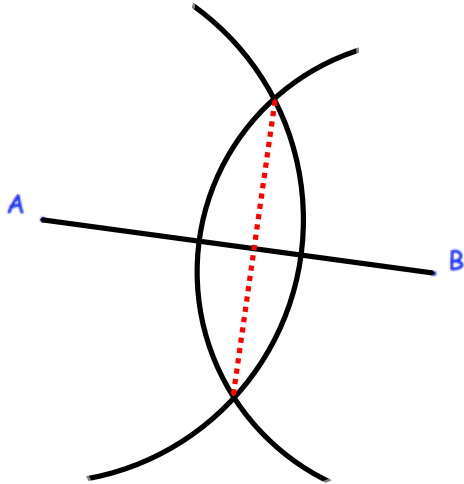
[Video 74](#)

[Video 80](#)



1. Use ruler and compasses to construct the perpendicular bisector of AB.
You **must** show clearly all your construction arcs.

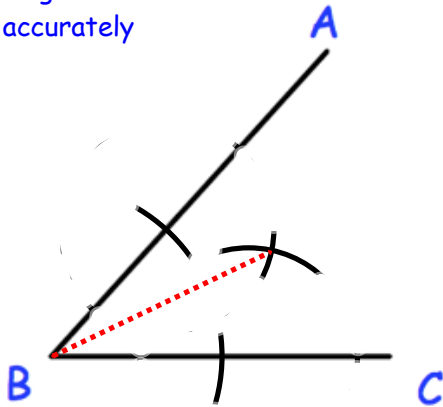
This solution gives an idea of where the construction lines should be and is not drawn accurately



(2)

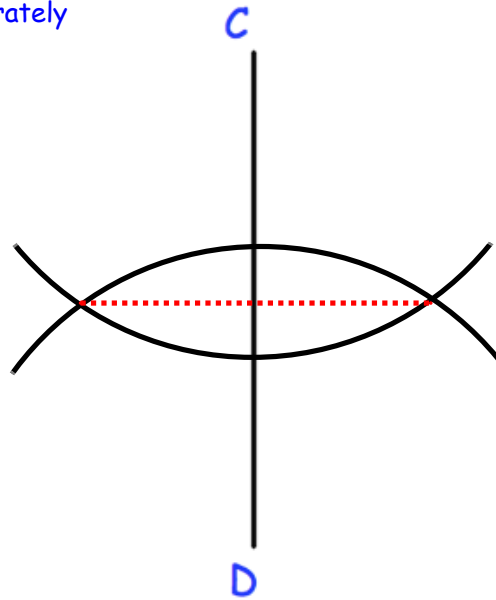
-
2. Using ruler and compasses, construct the bisector of angle ABC.

This solution gives an idea of where the construction lines should be and is not drawn accurately



(2)

This ³ solution gives an idea of where the construction lines should be and is not drawn accurately



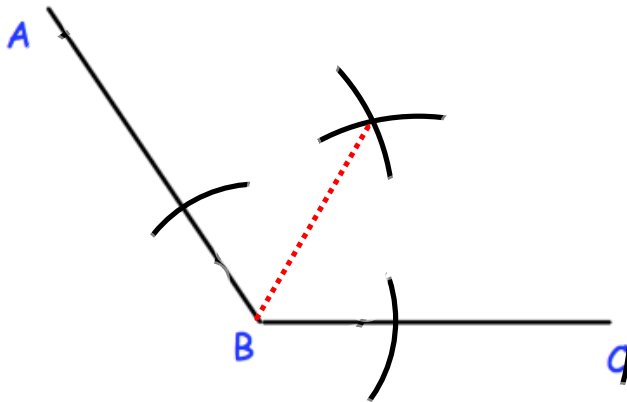
The line CD is drawn above.

Use ruler and compasses to construct the perpendicular bisector of CD. You **must** show clearly all your construction arcs.

(2)

4. Using ruler and compasses, construct the bisector of angle ABC.

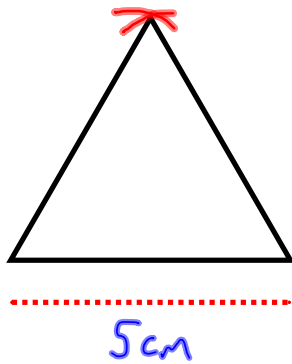
This solution gives an idea of where the construction lines should be and is not drawn accurately



(2)

5. In the space below, use ruler and compasses to construct an equilateral triangle with sides of length 5cm.

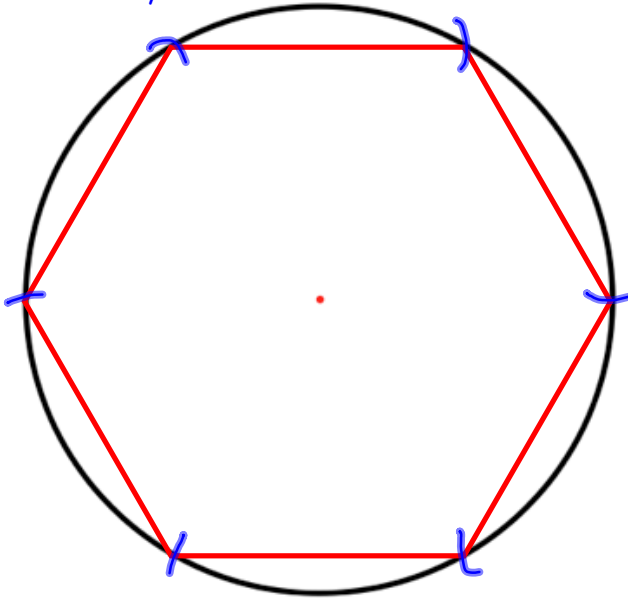
This solution gives an idea of where the construction lines should be and is not drawn accurately



(2)

6. Use a ruler and compasses to construct a regular hexagon that is inscribed in the circle below.

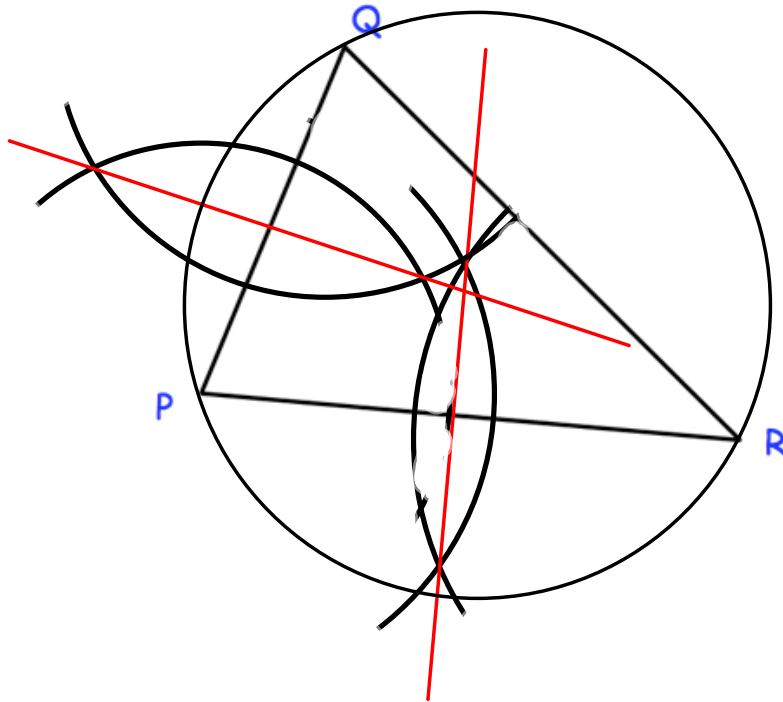
This solution gives an idea of where the construction lines should be and is not drawn accurately



(2)

7. The diagram shows a triangle, ABC.

This is a very rough representation of the solution.



(a) Using a ruler and compasses only, construct the perpendicular bisector of PQ .
You **must** show clearly all your construction arcs.

(2)

(b) Repeat this construction on another side of the triangle.

(1)

(c) The point of intersection of the two bisectors is the centre of the circle that passes through P , Q and R .

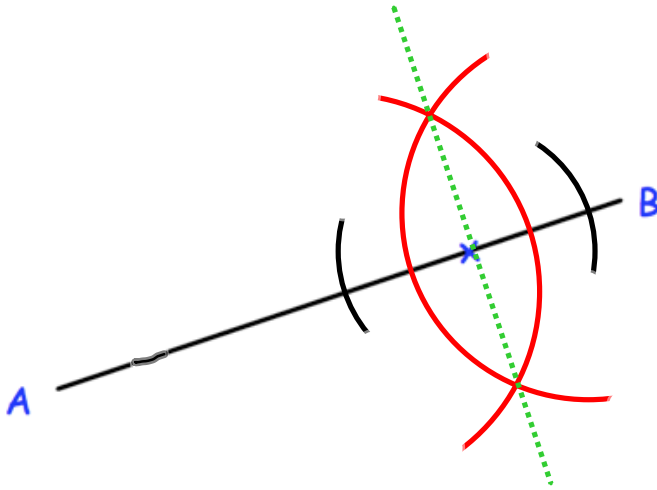
Draw this circle.

(2)

8. 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.

This is a rough representation of the solution.

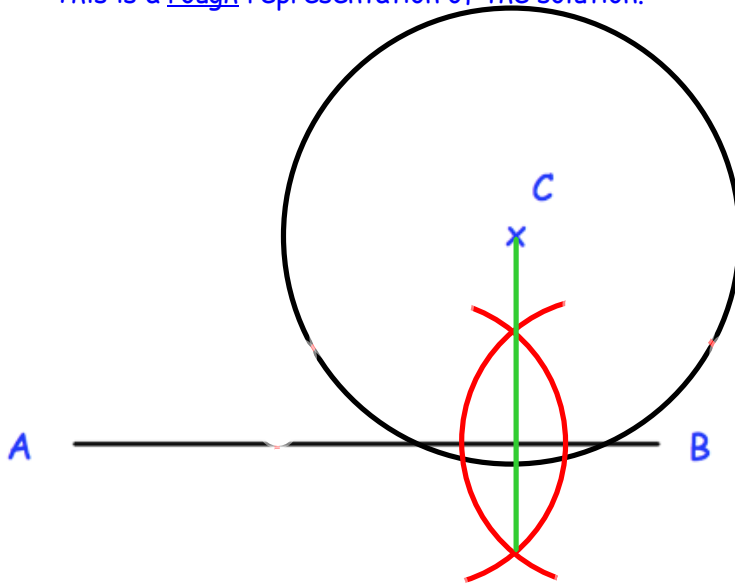


(2)

9. Use a ruler and compasses to construct the perpendicular from the line segment AB to the point C.

You must show all construction lines.

This is a rough representation of the solution.



(2)