

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



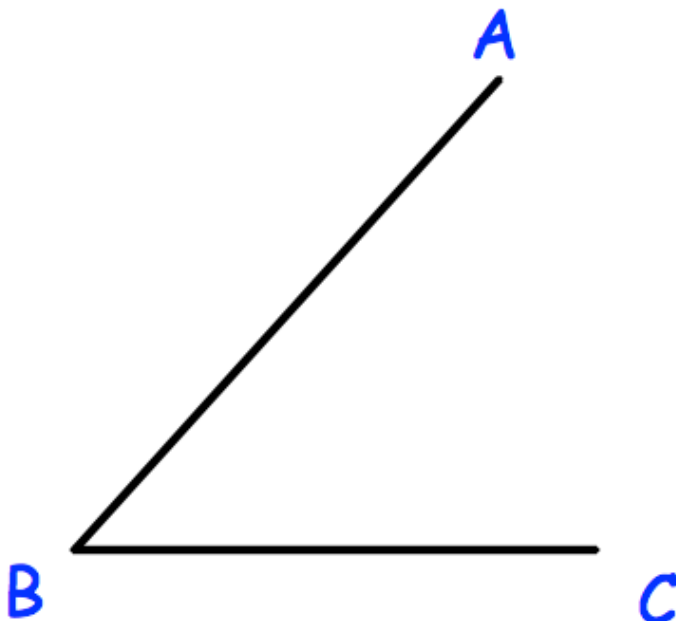
1. Use ruler and compasses to construct the perpendicular bisector of AB. You **must** show clearly all your construction arcs.

A .

. B

(2)

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



(2)

3.

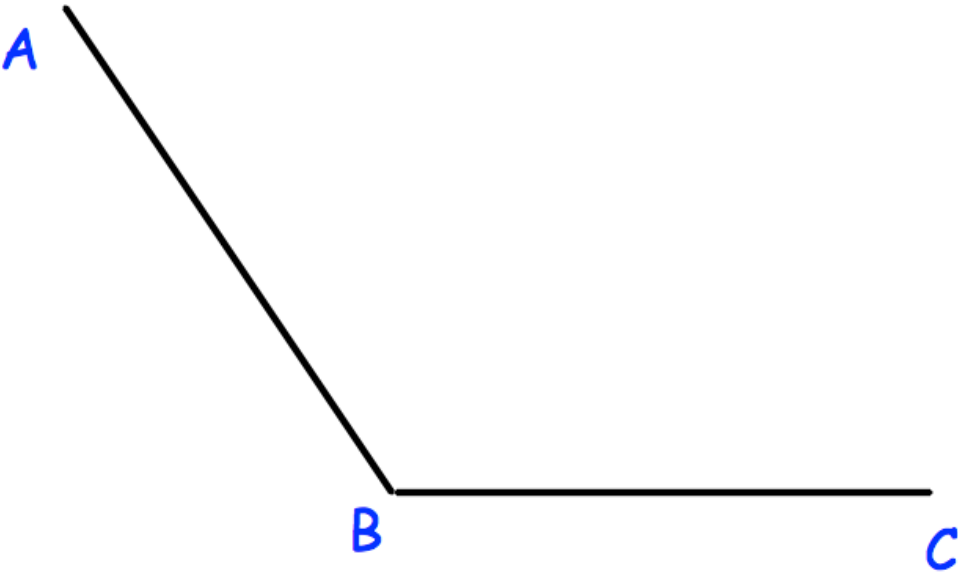


The line CD is drawn above.

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.

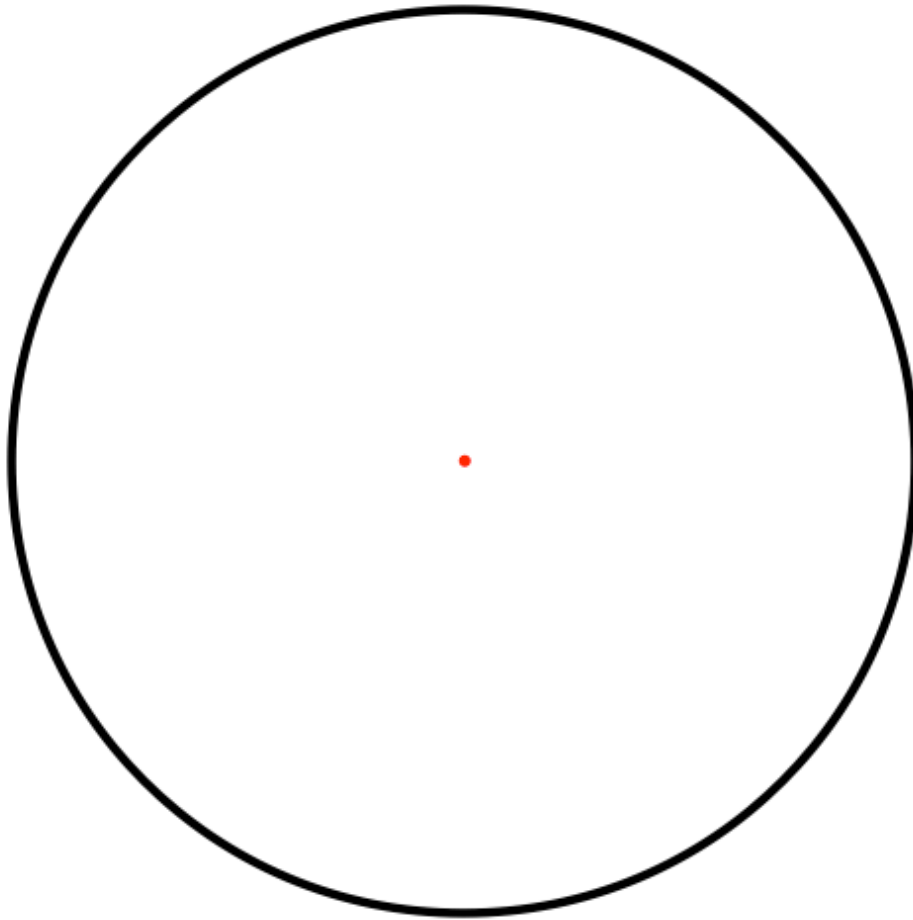


(2)

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

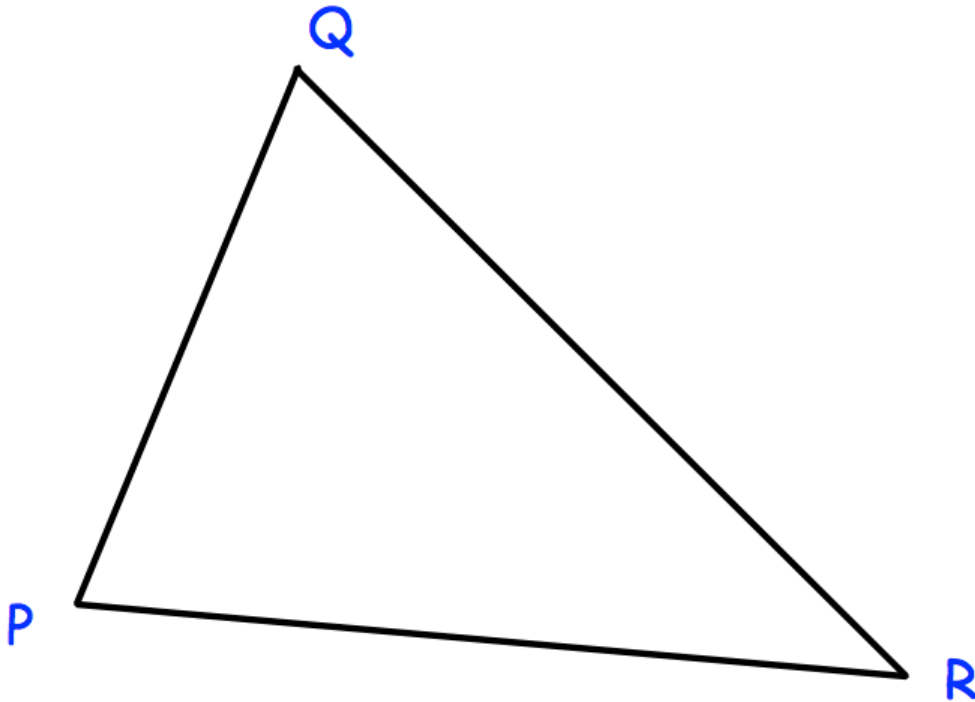
(2)

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



(2)

7. The diagram shows a triangle, ABC.



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

(2)

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

(1)

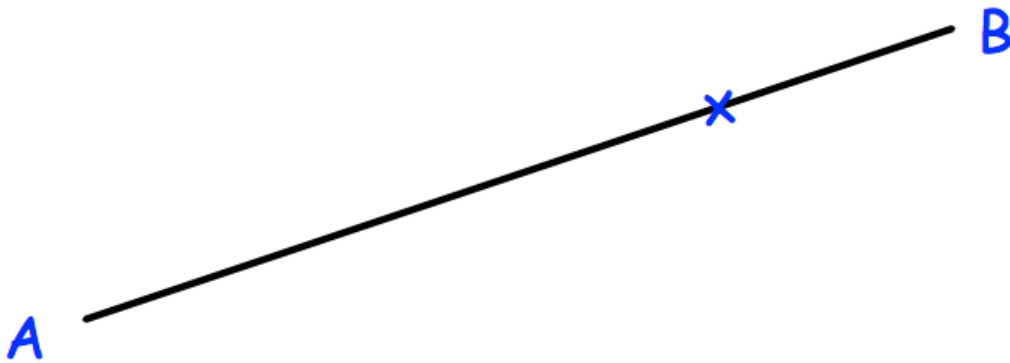
- (c) The point of intersection of the two bisectors is the centre of the circle that passes through P, Q and R.

Draw this circle.

(2)

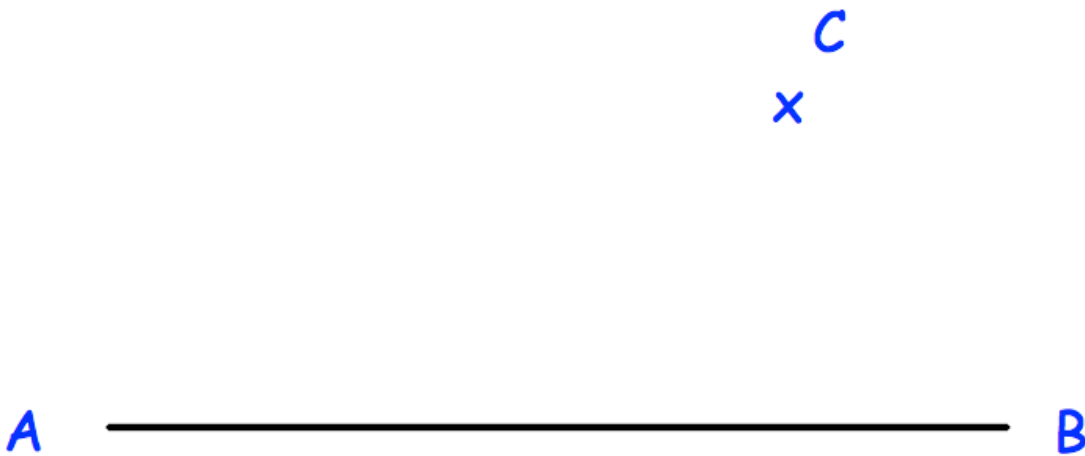
8. Use a ruler and compasses to construct the perpendicular to the line segment AB that passes through the point P.

You must show all construction lines.



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.



(2)