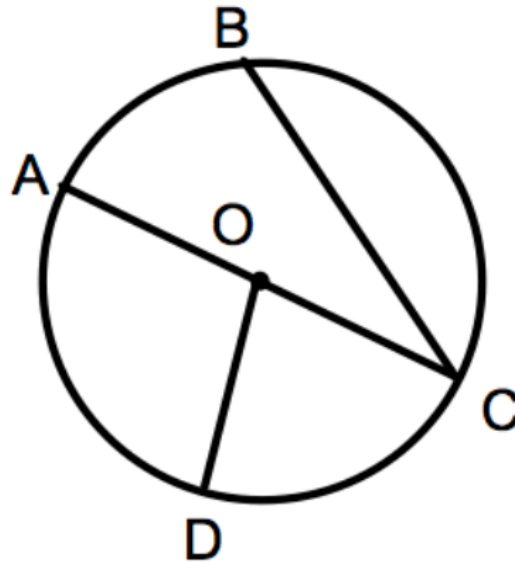




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**General instructions:** Read and understand the questions carefully. Show complete working out.

- Q1. Points A, B, C and D are four points on the circle with centre O.



Here are six words that are used with circles.

**Arc   Diameter   Chord   Tangent   Circumference   Radius**

Choose the correct word to describe each line below.

- (a) The straight line AC is a ..... of the circle. (1)
- (b) The straight line OD is a ..... of the circle. (1)
- (c) The straight line BC is a ..... of the circle. (1)



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**Q2.**

Work out the area of the following circles. Show your complete working out and give your answers to 1 decimal place.

- |                                    |                                |
|------------------------------------|--------------------------------|
| (a) A circle with radius 9cm       | (b) A circle with radius 12m   |
| (c) A circle with diameter 40cm    | (d) A circle with diameter 1km |
| (e) A circle with diameter 5 yards | (f) A circle with radius 10.5m |

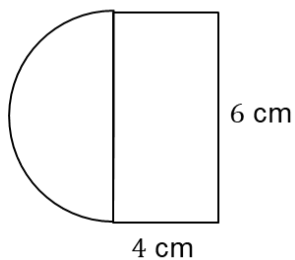


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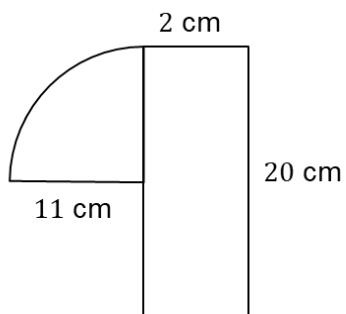
**Q3.**

Calculate the areas and perimeters of the shapes below. Give your answers correct to 2 decimal places.

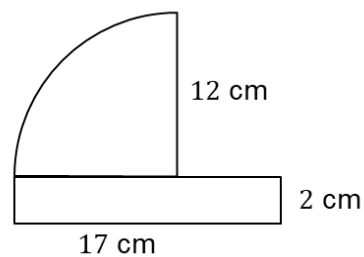
**a.**



**b.**

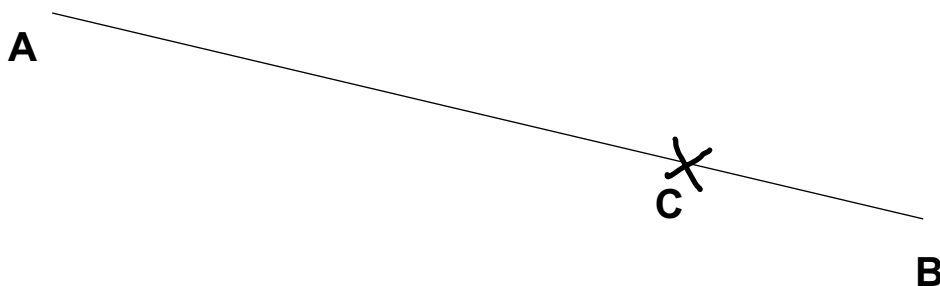


**c.**



**Q4.**

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

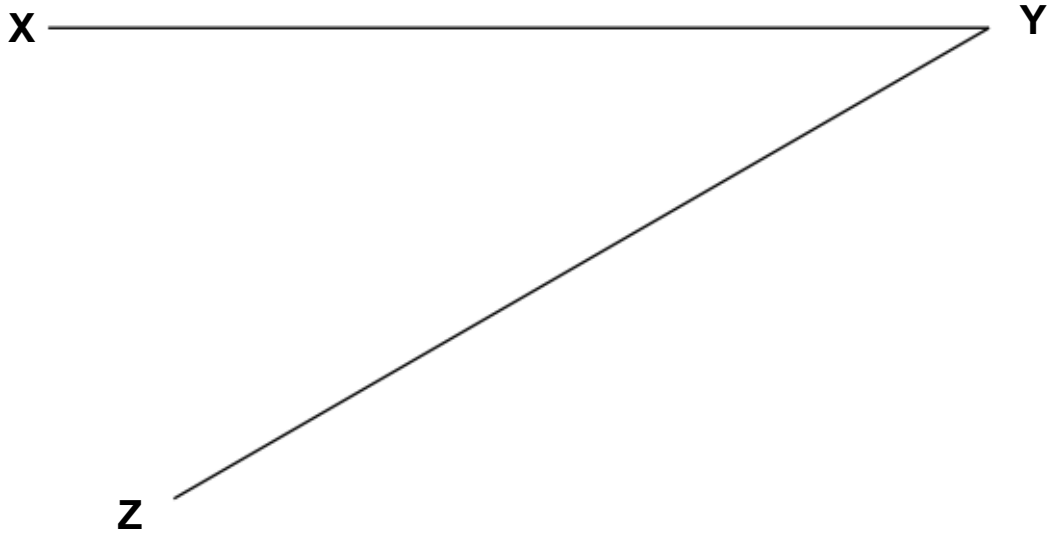




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**Q5.**

Use ruler and compasses to construct the bisector of angle  $XYZ$ . You must show all construction lines.



**Q6.**

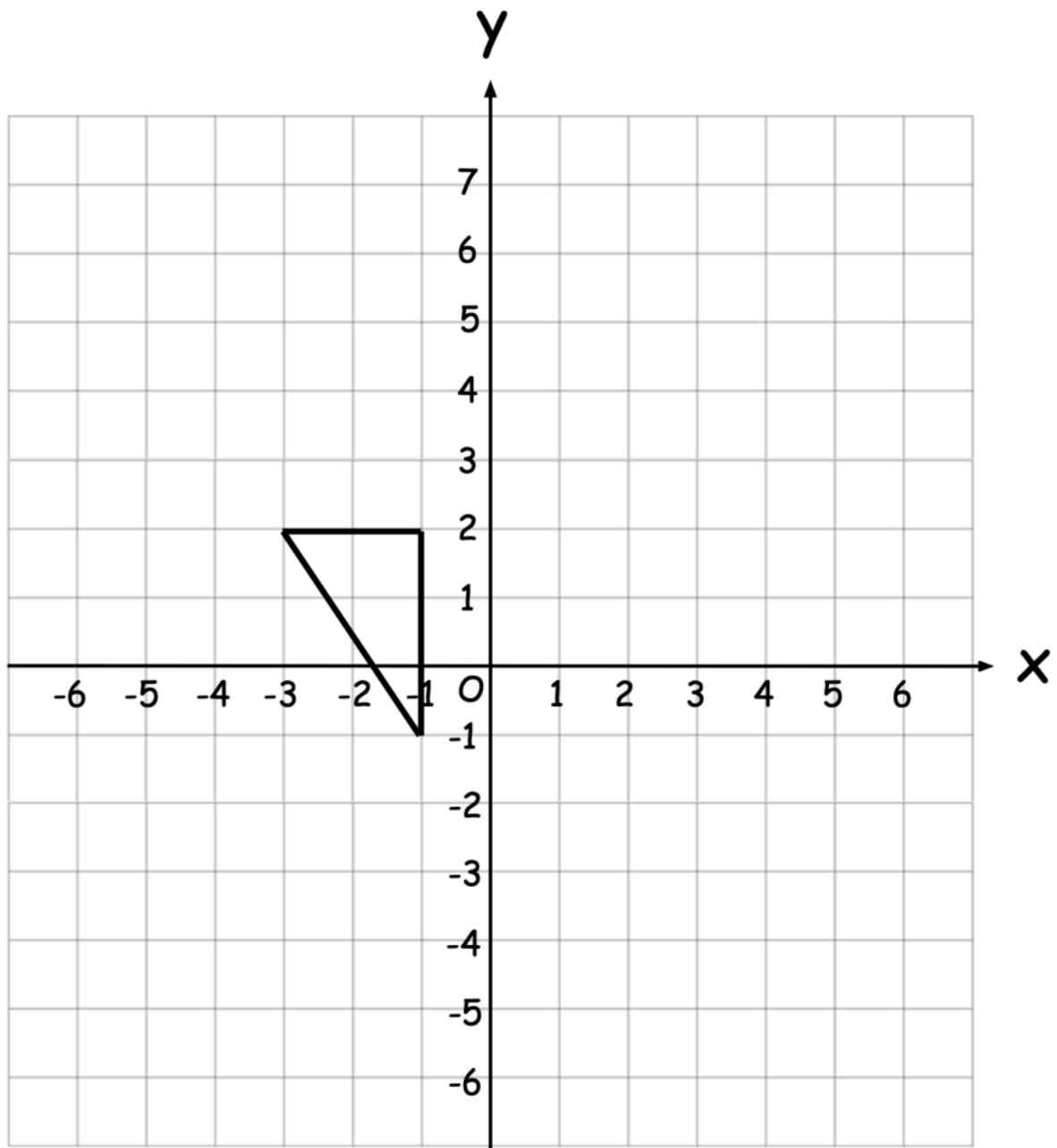
Triangle  $ABC$  is an equilateral triangle of side 5 cm.

Using a ruler and compasses only, construct triangle  $ABC$   
You must show all your construction lines.



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Q7.

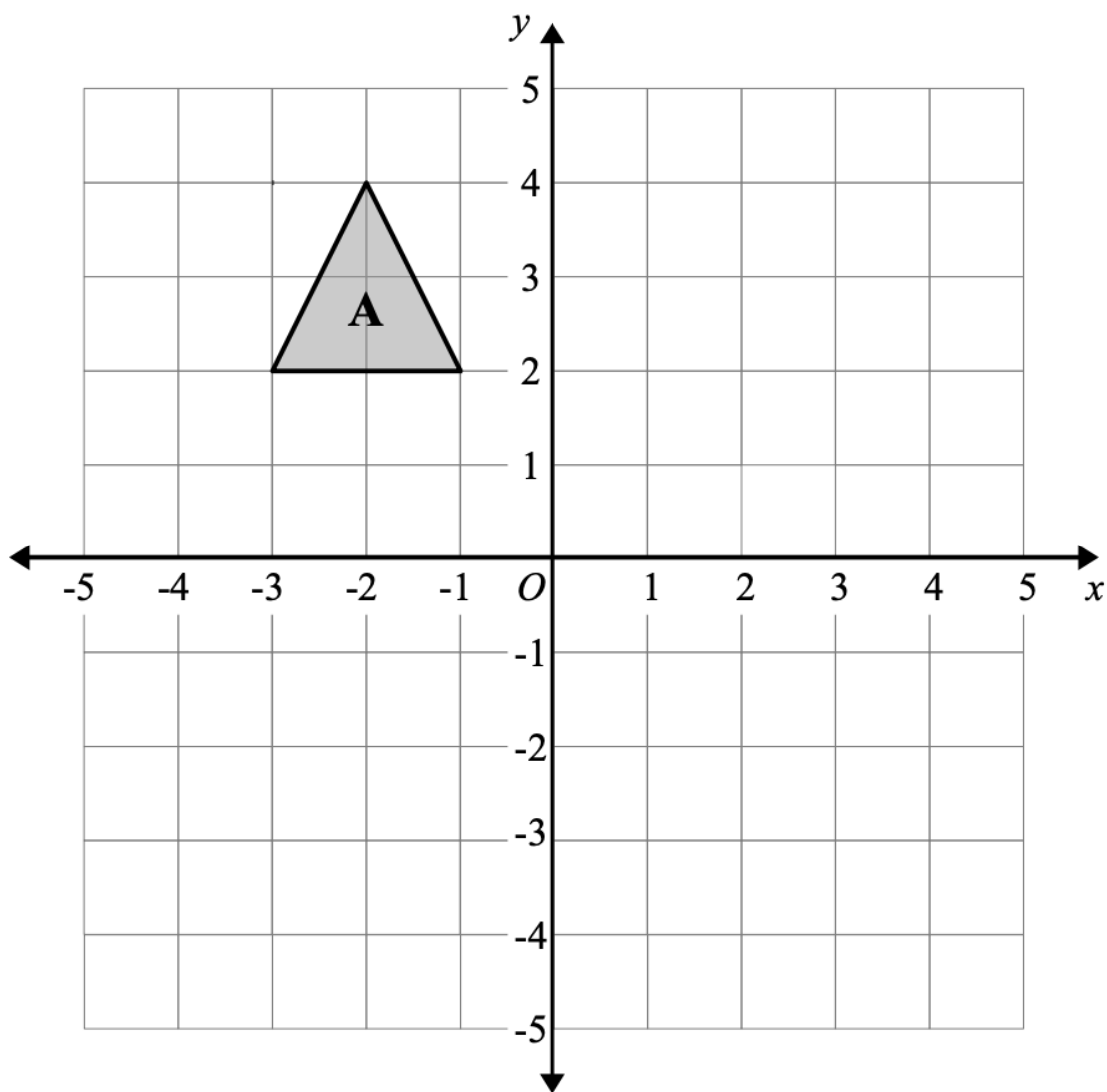


Enlarge the triangle using a scale factor of 2 and centre of enlargement (0, 0).



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**Q8.**



Rotate shape **A**  $180^\circ$  about  $(1, 0)$

END