

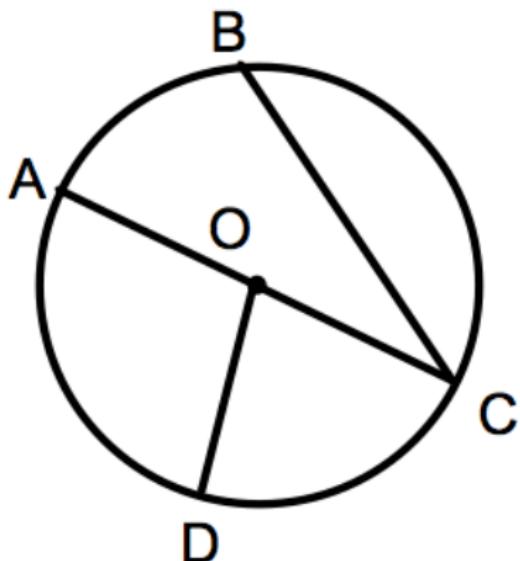


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General instructions: Read and understand the questions carefully. Show complete working out.

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

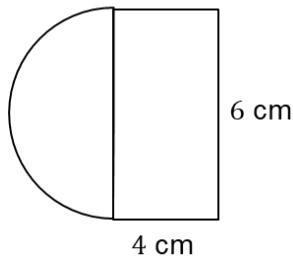


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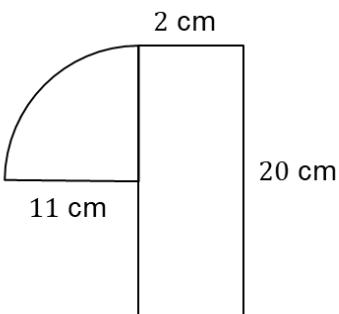
Q3.

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

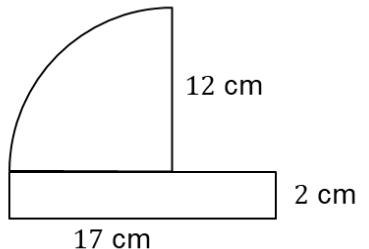
a.



b.

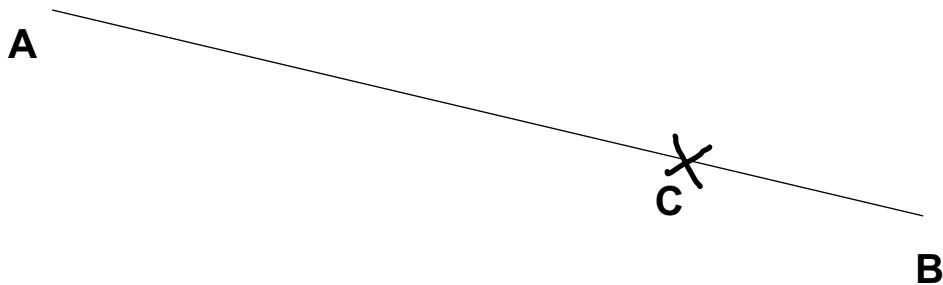


c.



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.

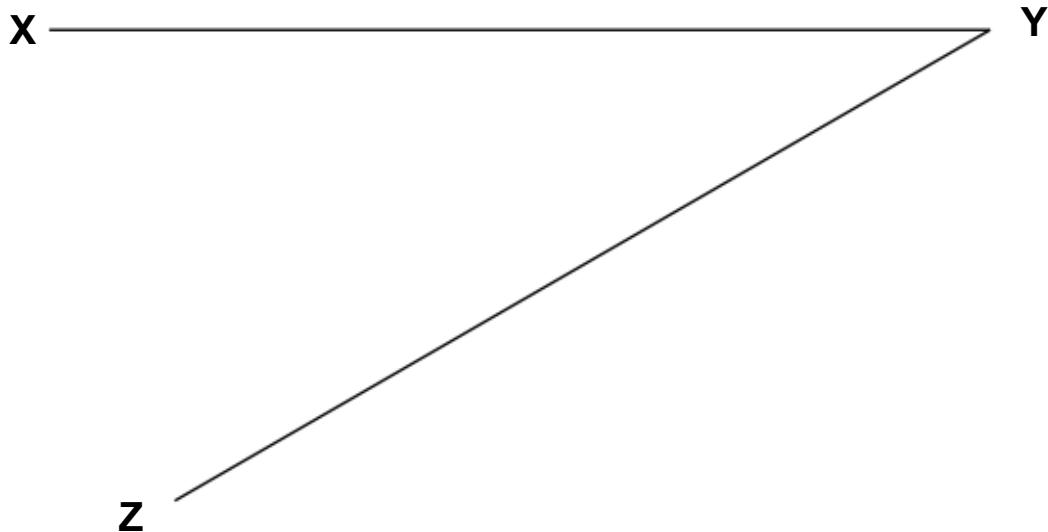




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Q5.

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



Q6.

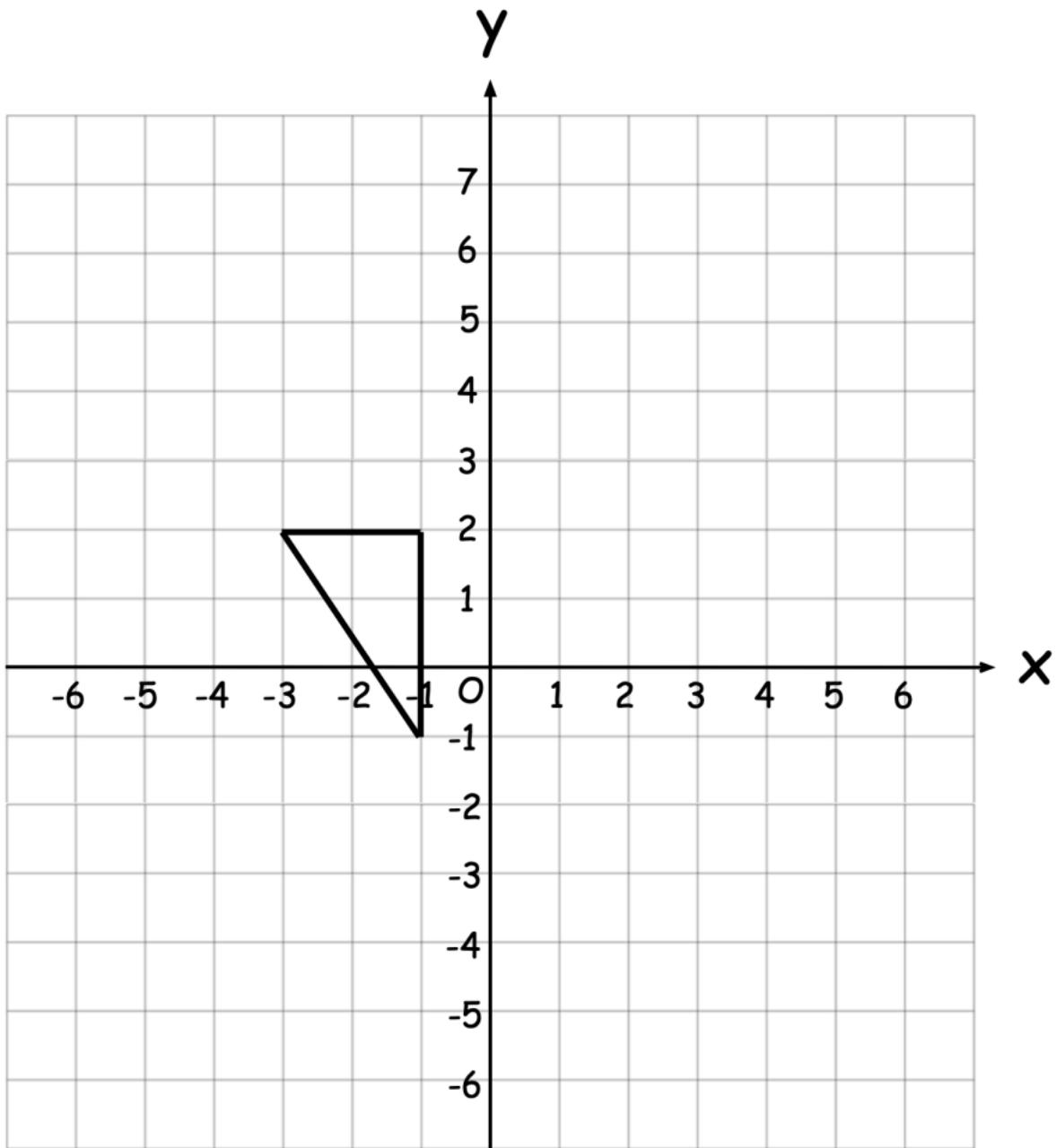
Triangle ABC is an equilateral triangle of side 5 cm.

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



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Q7.

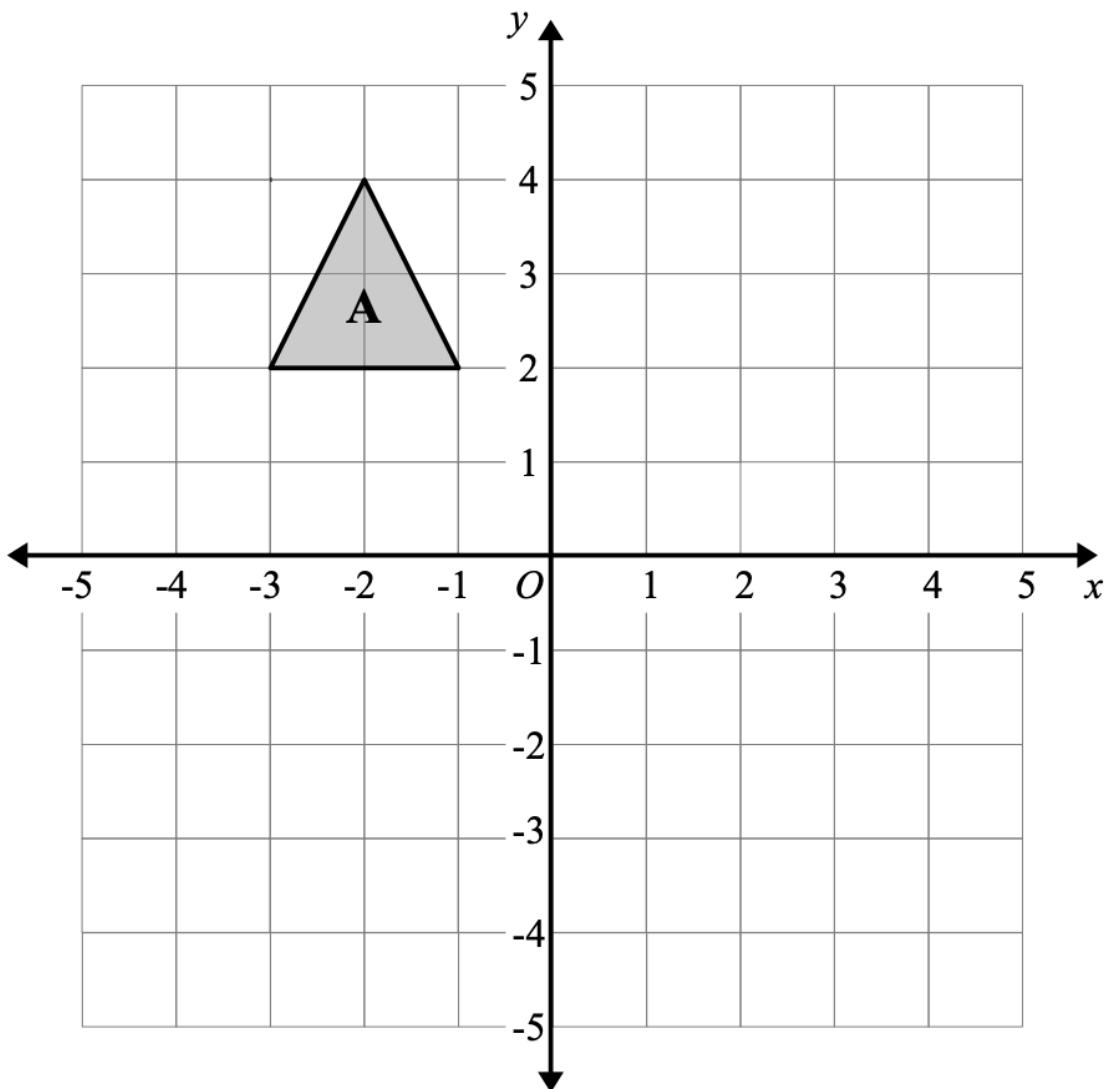


Enlarge the triangle using a scale factor of 2 and centre of enlargement $(0, 0)$.



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Q8.



Rotate shape A 180° about $(1, 0)$

END