



Constructions

Print this booklet on full size A4.

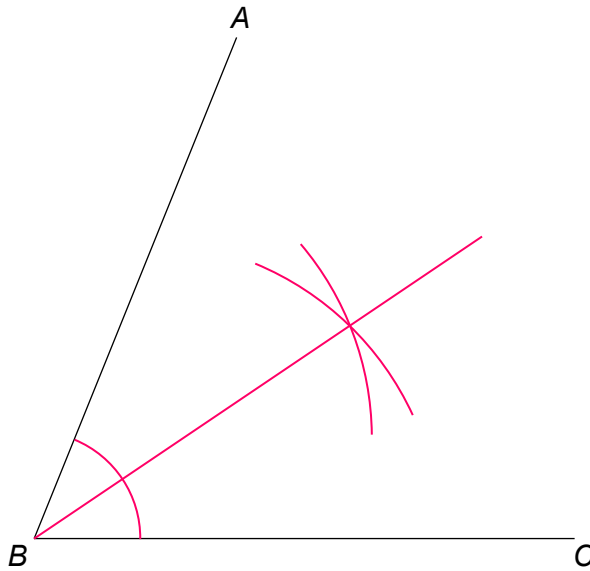
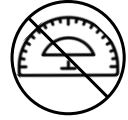


REVISE THIS TOPIC



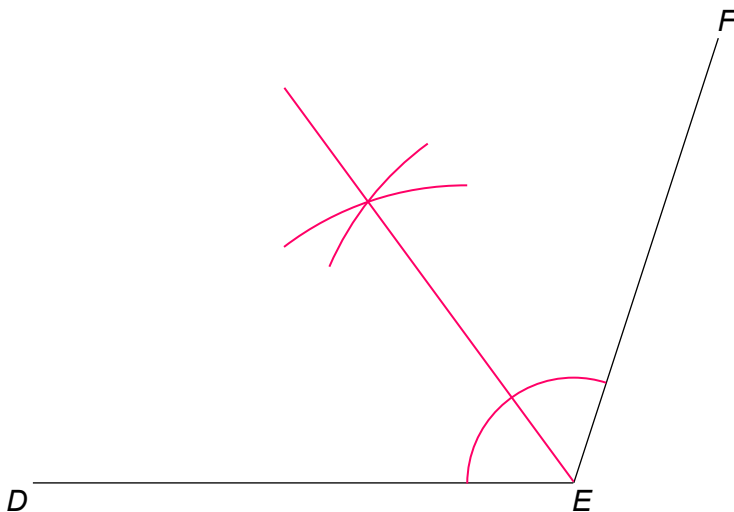
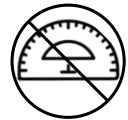
1 Use a ruler and compasses to construct the bisector of angle ABC .

[2 marks]



2 Use a ruler and compasses to construct the bisector of angle DEF .

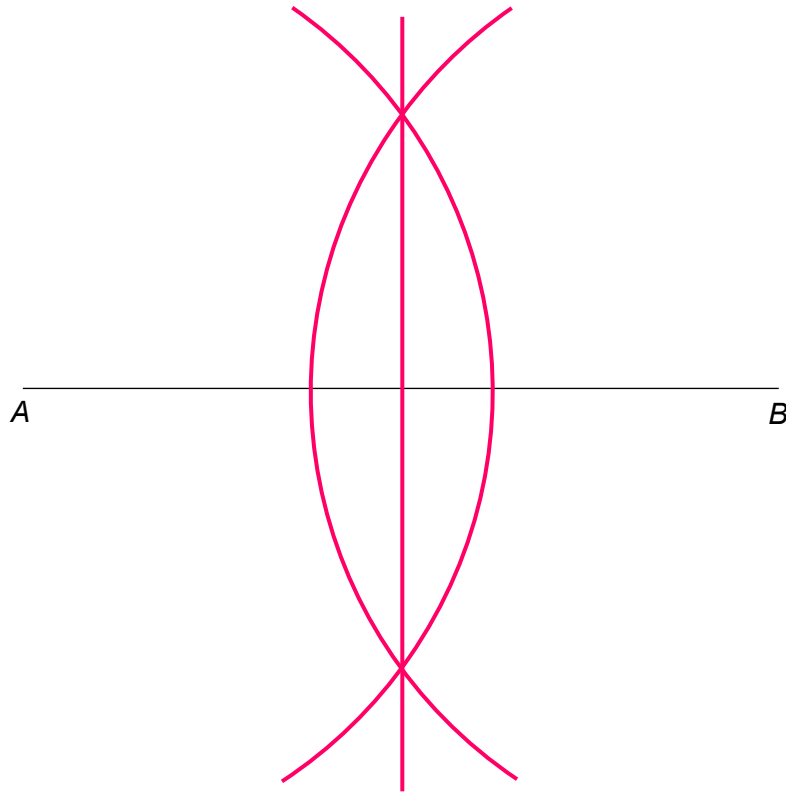
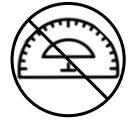
[2 marks]





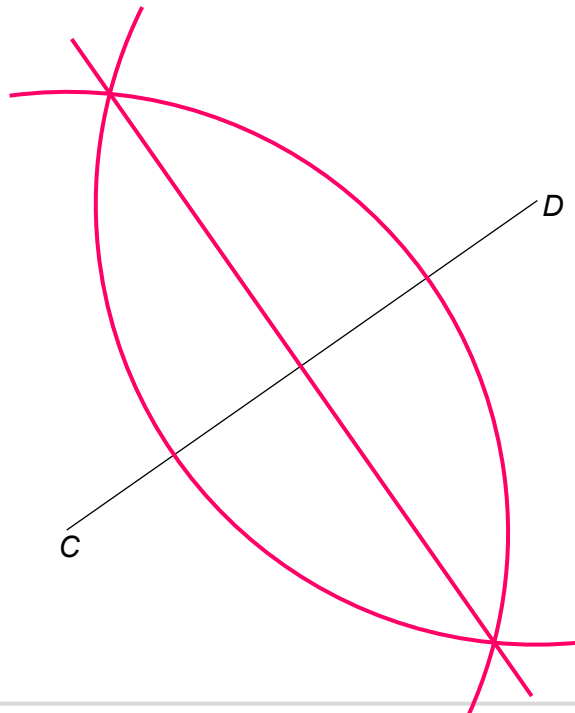
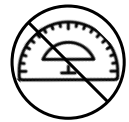
3 Use a ruler and compasses to construct the perpendicular bisector of line AB .

[2 marks]



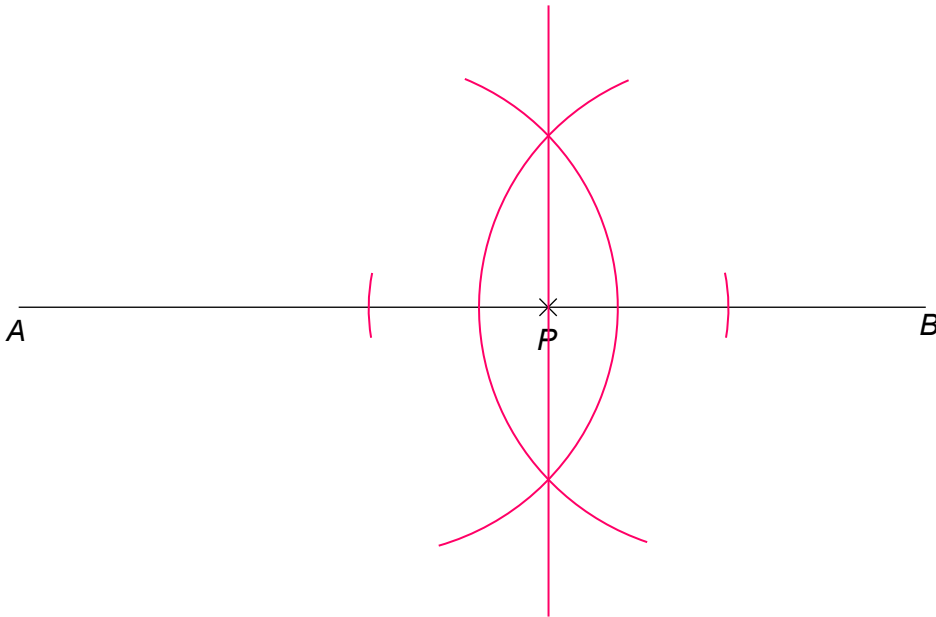
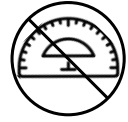
4 Use a ruler and compasses to construct the perpendicular bisector of line CD .

[2 marks]

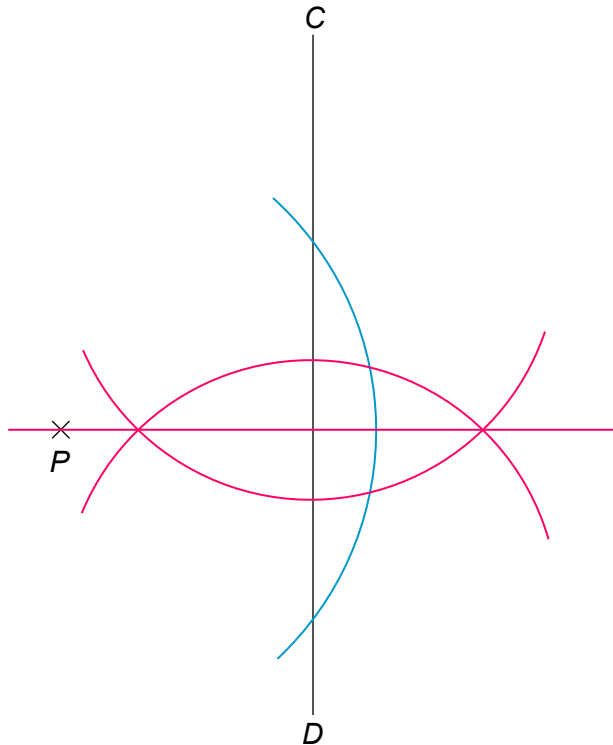
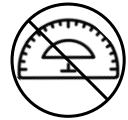




- 5 The point P lies on the line AB .
Use a ruler and compasses to construct an angle of 90° at P .
You must show all your construction lines. [2 marks]

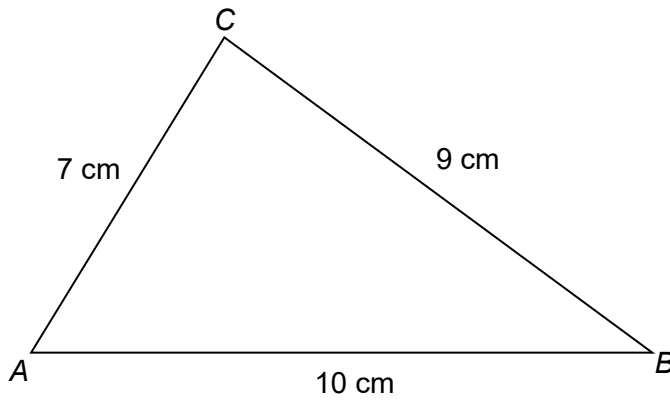
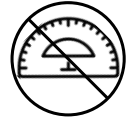


- 6 Use a ruler and compasses to construct the line from the point P perpendicular to the line CD .
[2 marks]





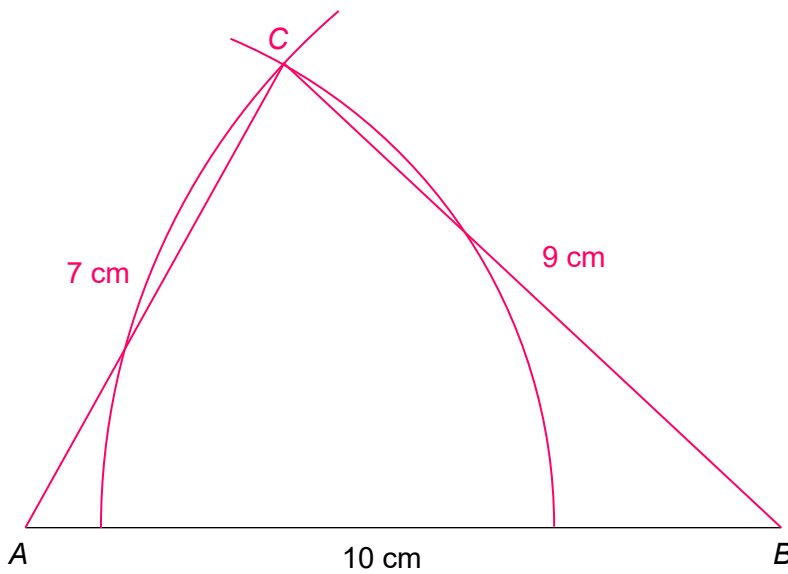
7 A sketch of triangle ABC is shown.



In the space below, construct an accurate drawing of triangle ABC .

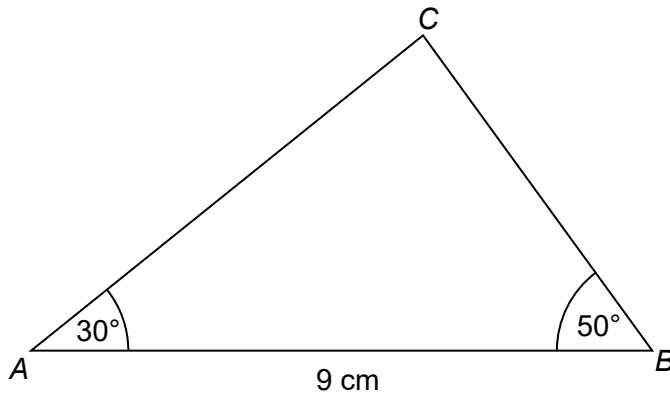
You should use only a ruler and compasses for this question.

[2 marks]

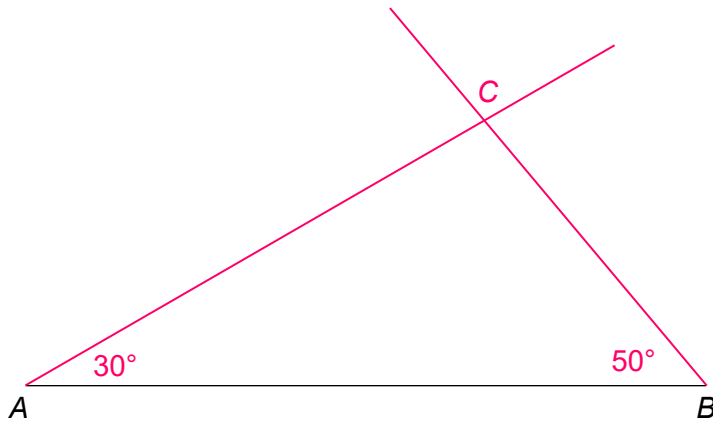




8 A sketch of triangle ABC is shown.



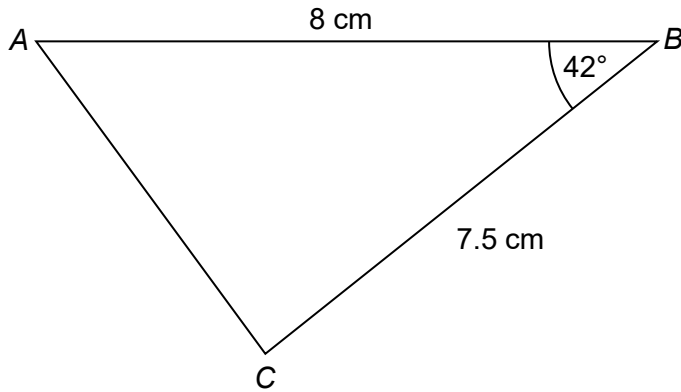
In the space below, complete an accurate drawing of triangle ABC . [2 marks]



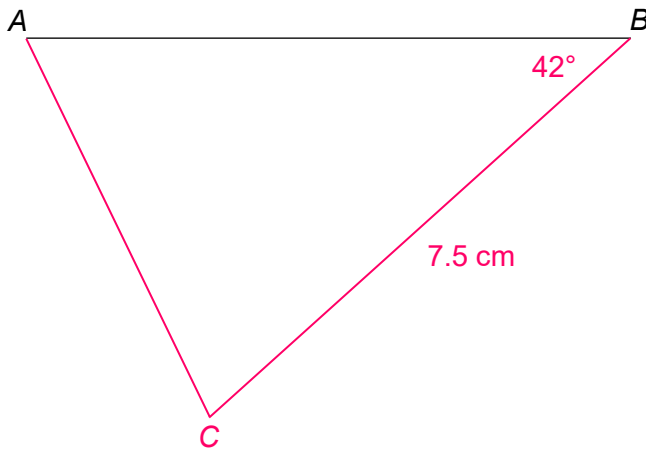


9

A sketch of triangle ABC is shown.



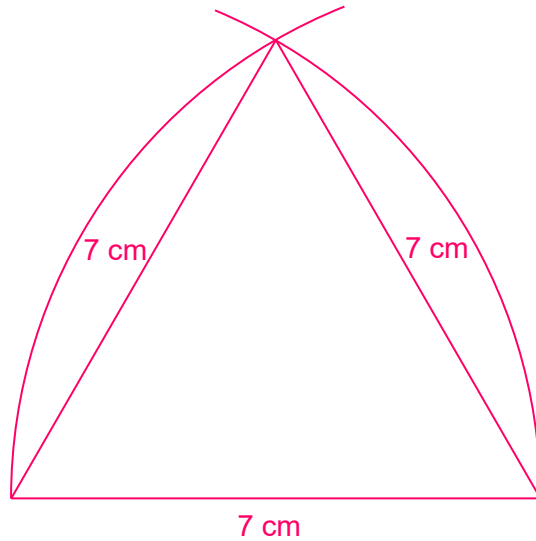
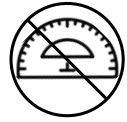
In the space below, complete an accurate drawing of triangle ABC . [2 marks]





10 Using a ruler and compasses only, construct an equilateral triangle with side length 7 cm.

[2 marks]

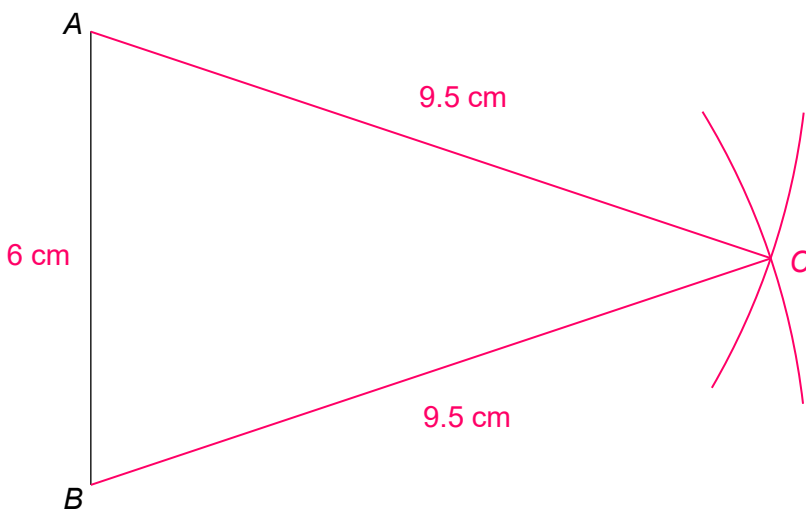
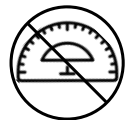


11 ABC is an isosceles triangle.
 $AB = 6\text{ cm}$
 $AC = BC = 9.5\text{ cm}$

In the space below, construct an accurate drawing of triangle ABC .

You should use only a ruler and compasses for this question.

[2 marks]





12

ABC is a triangle.

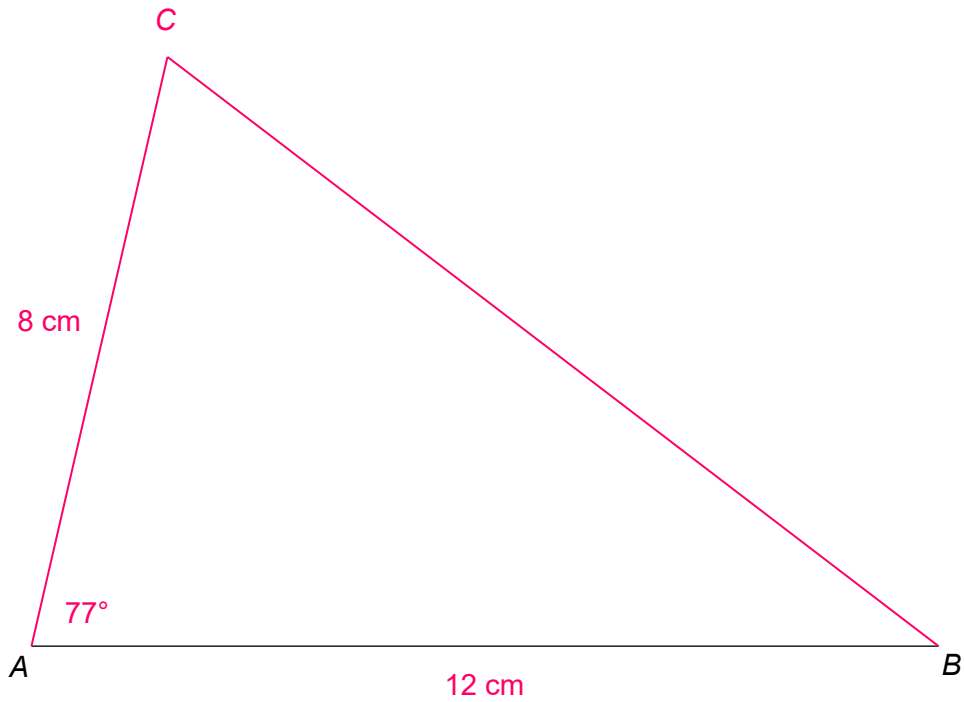
$AB = 12\text{ cm}$

Angle $BAC = 77^\circ$

$AC = 8\text{ cm}$

In the space below, complete an accurate drawing of triangle ABC .

[2 marks]





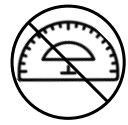
13

ABC is a triangle.

$AB = 8$ cm

Angle $ABC = 60^\circ$

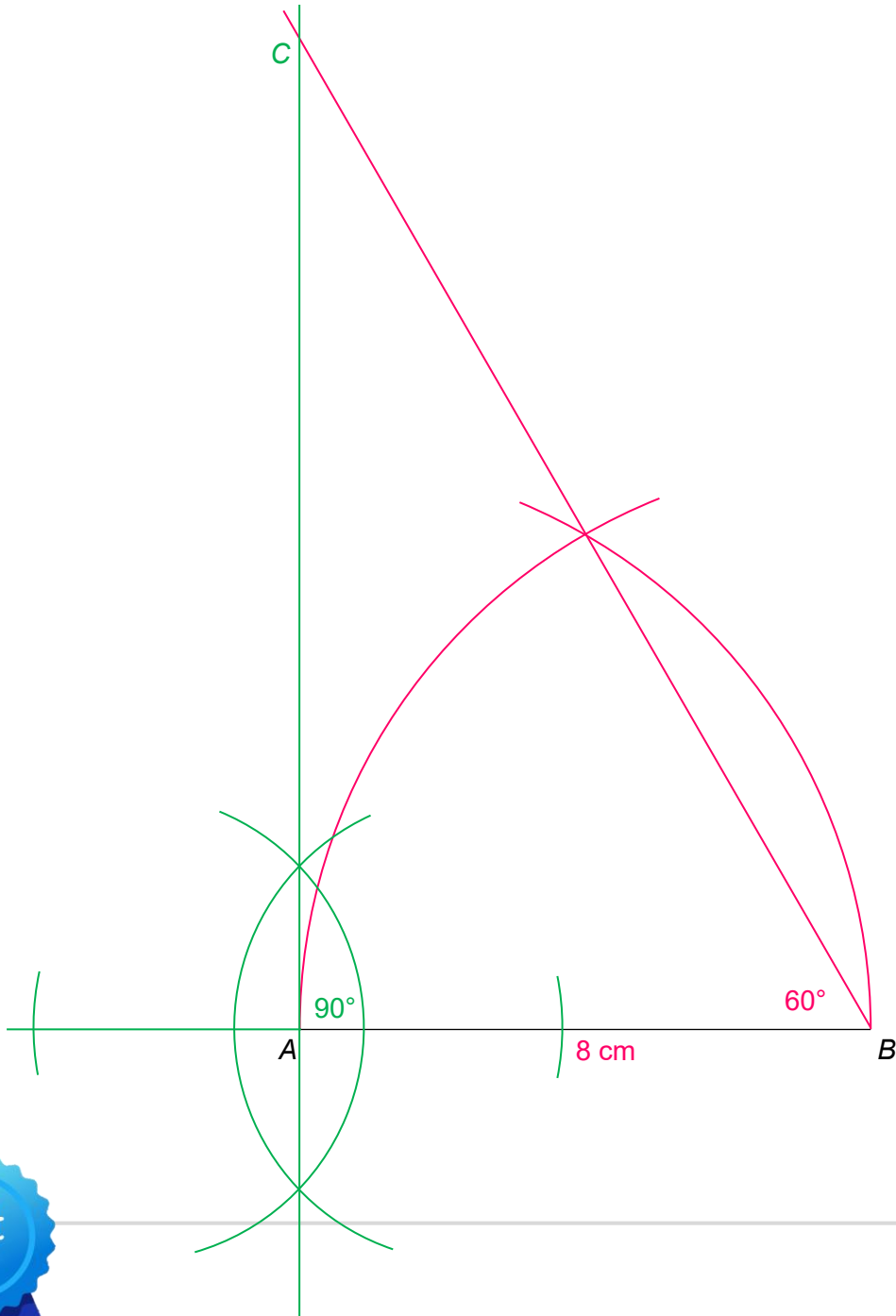
Angle $BAC = 90^\circ$



In the space below, construct an accurate drawing of triangle ABC .

You should use only a ruler and compasses for this question.

[4 marks]



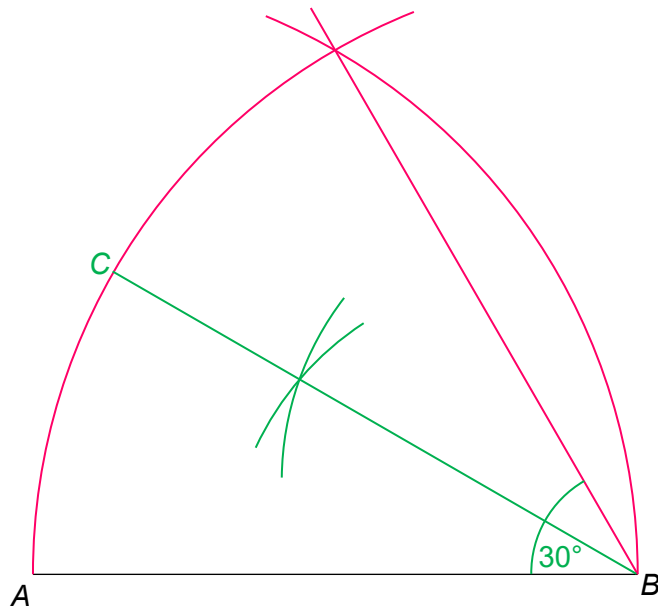
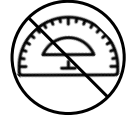


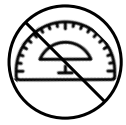
14

Angle $ABC = 30^\circ$

Use a ruler and compasses to construct angle ABC .

[4 marks]





15 ABC is an isosceles triangle.

$AB = 8 \text{ cm}$
 $AC = BC$

The area of triangle ABC is 40 cm^2

In the space below, construct an accurate drawing of triangle ABC .

You should use only a ruler and compasses for this question.

[4 marks]

$$\frac{1}{2} \times 8 \times h = 40$$

$$4h = 40$$

$$h = 10 \text{ cm}$$

