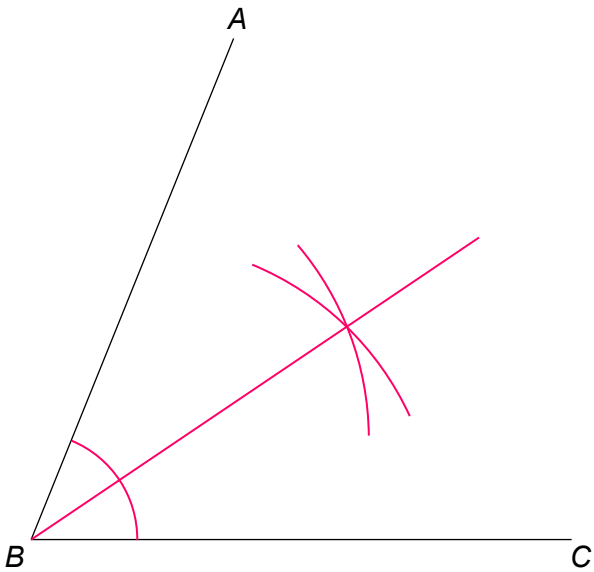
Constructions

Print this booklet on full size A4.

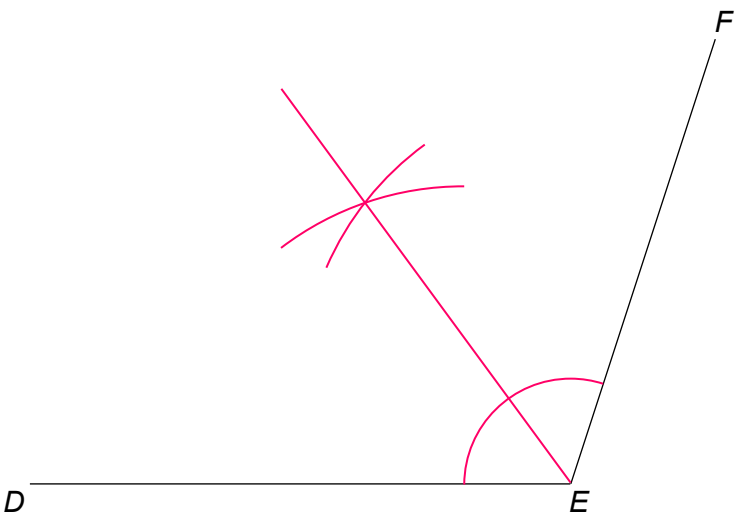
SCAN ME

REVISE THIS TOPIC

1 Use a ruler and compasses to construct the bisector of angle *ABC*. **[2 marks]**

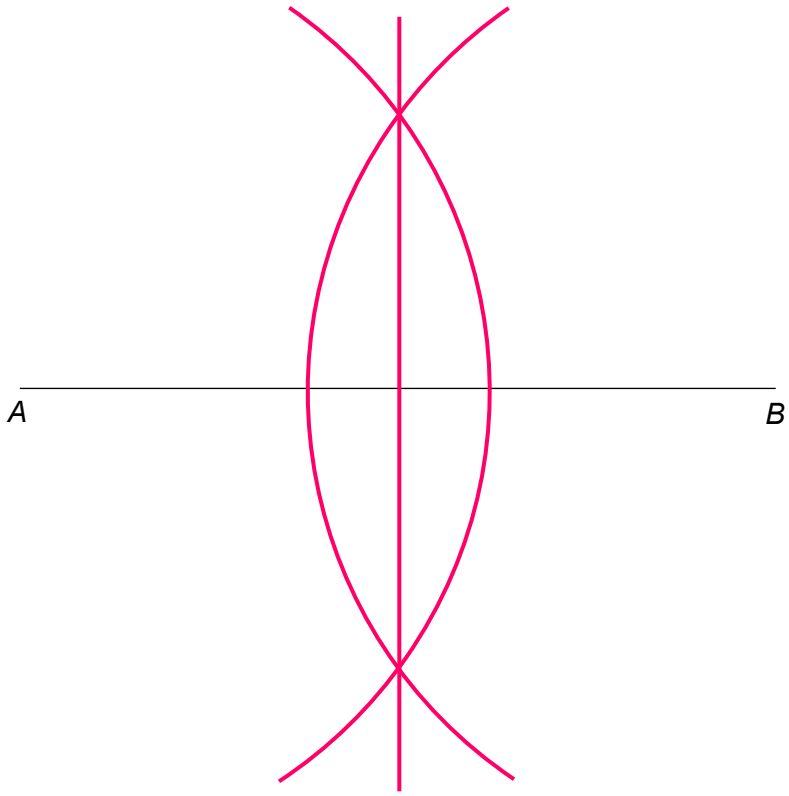


2 Use a ruler and compasses to construct the bisector of angle *DEF*. **[2 marks]**



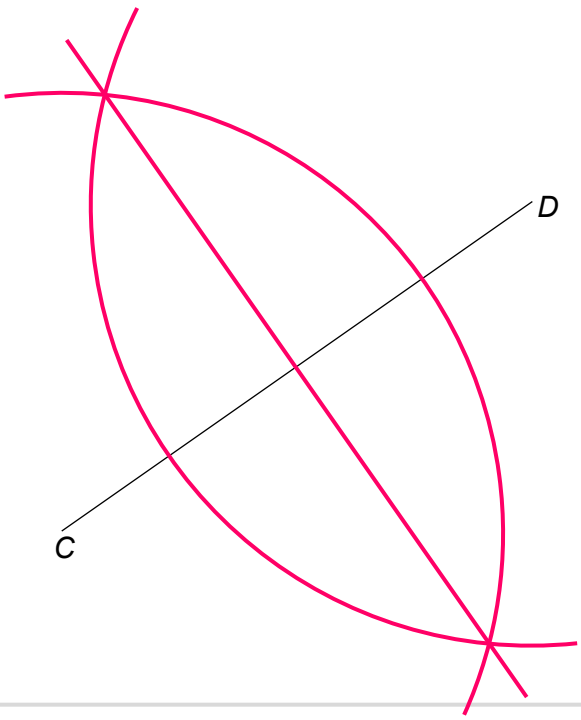
3 Use a ruler and compasses to construct the perpendicular bisector of line *AB*.

[2 marks]



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

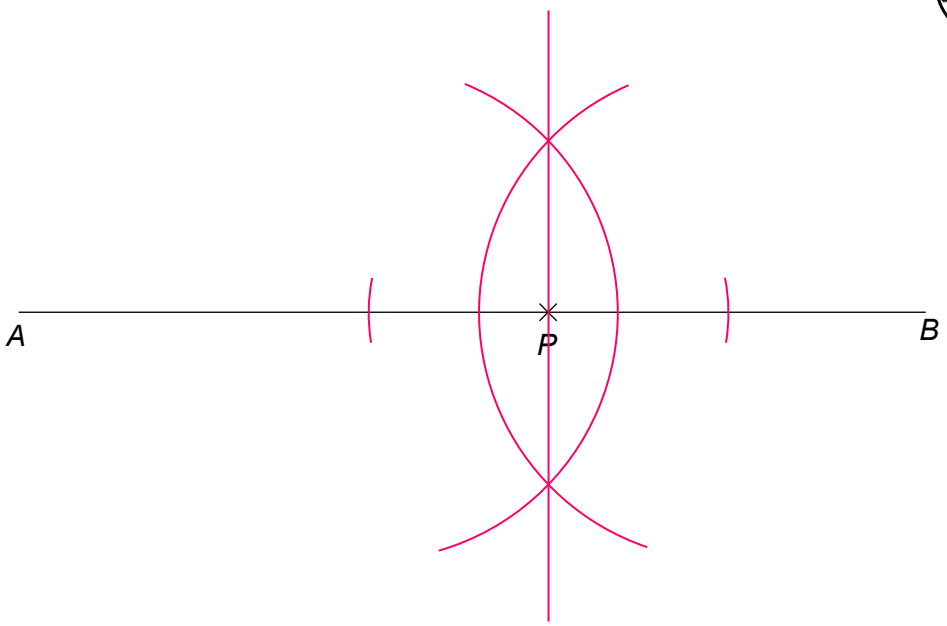
[2 marks]



Solutions

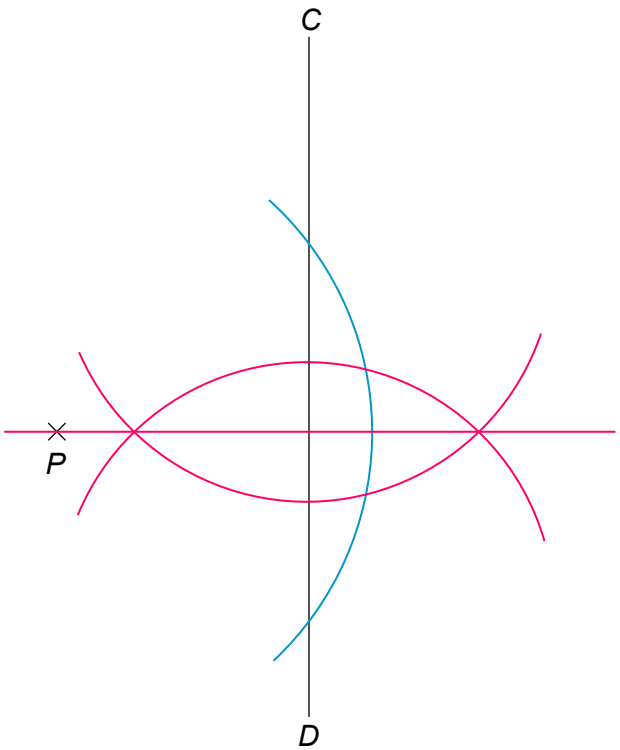
5 The point P lies on the line AB.
Use a ruler and compasses to construct an angle of 90° at P.
You must show all your construction lines.

[2 marks]



6 Use a ruler and compasses to construct the line from the point P perpendicular to the line CD.

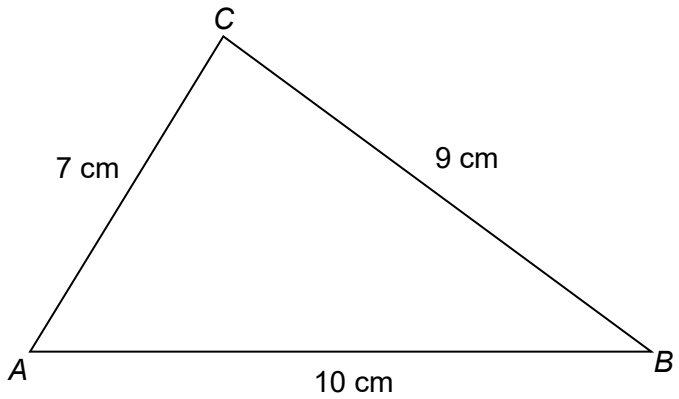
[2 marks]



8

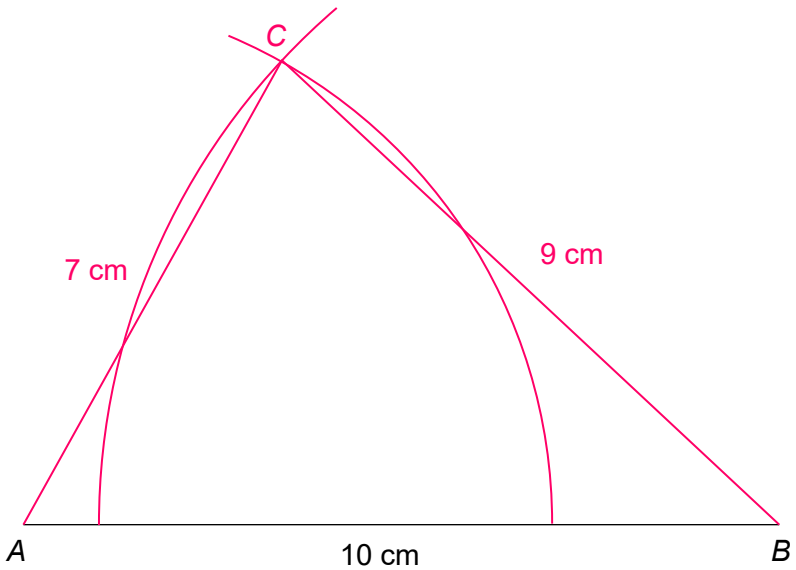
Solutions

7 A sketch of triangle *ABC* is shown.



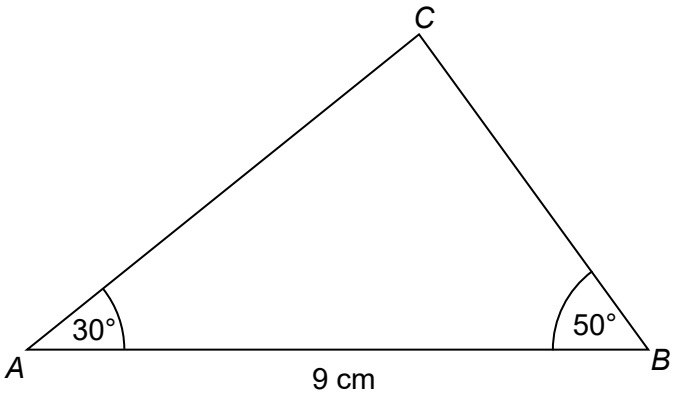
In the space below, construct an accurate drawing of triangle *ABC*.

You should use only a ruler and compasses for this question. **[2 marks]**

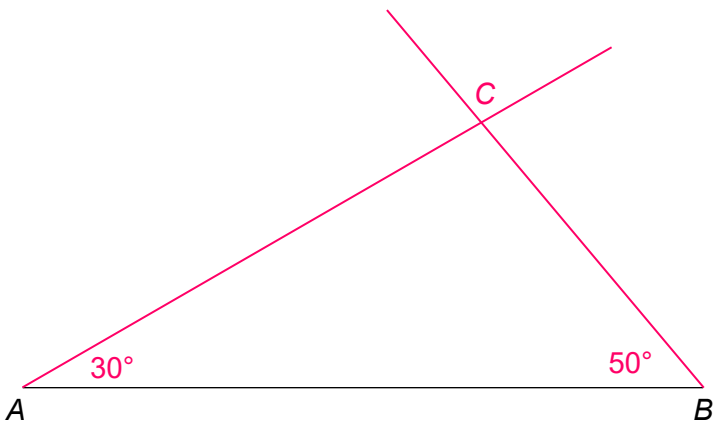


Solutions

8 A sketch of triangle *ABC* is shown.



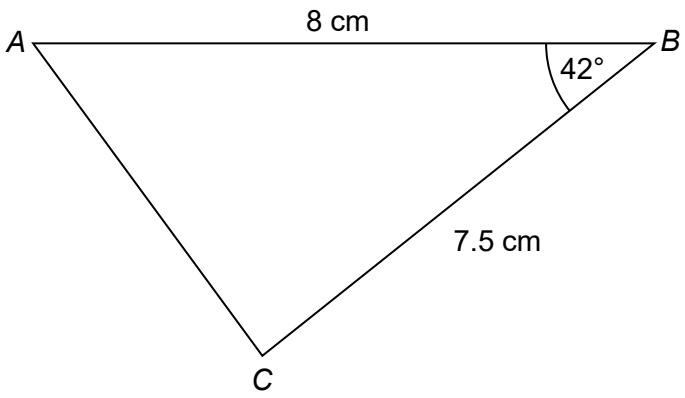
In the space below, complete an accurate drawing of triangle *ABC*. **[2 marks]**



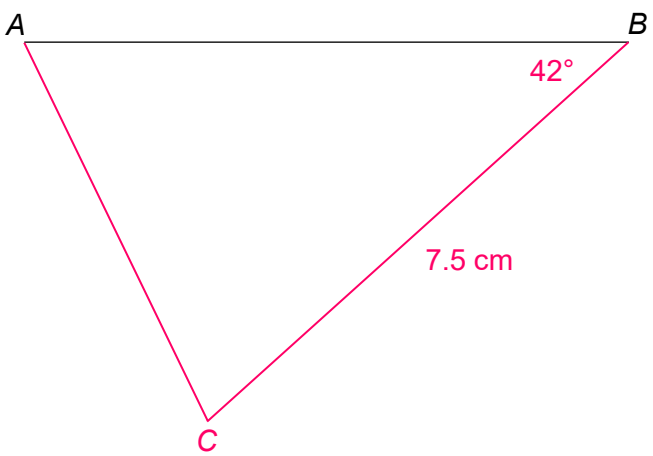
4

Solutions

9 A sketch of triangle *ABC* is shown.

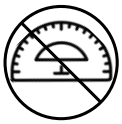


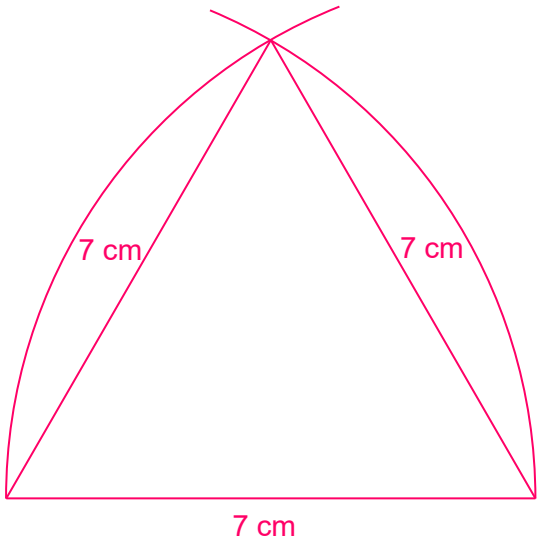
In the space below, complete an accurate drawing of triangle *ABC*. **[2 marks]**



Solutions

10 Using a ruler and compasses only, construct an equilateral triangle with side length 7 cm. **[2 marks]**

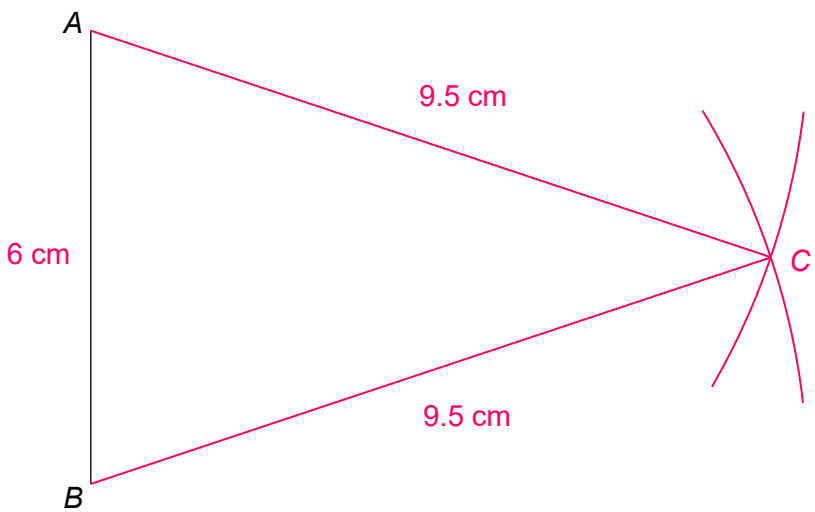




11 *ABC* is an isosceles triangle.
AB = 6cm
AC = *BC* = 9.5 cm

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

You should use only a ruler and compasses for this question. **[2 marks]**



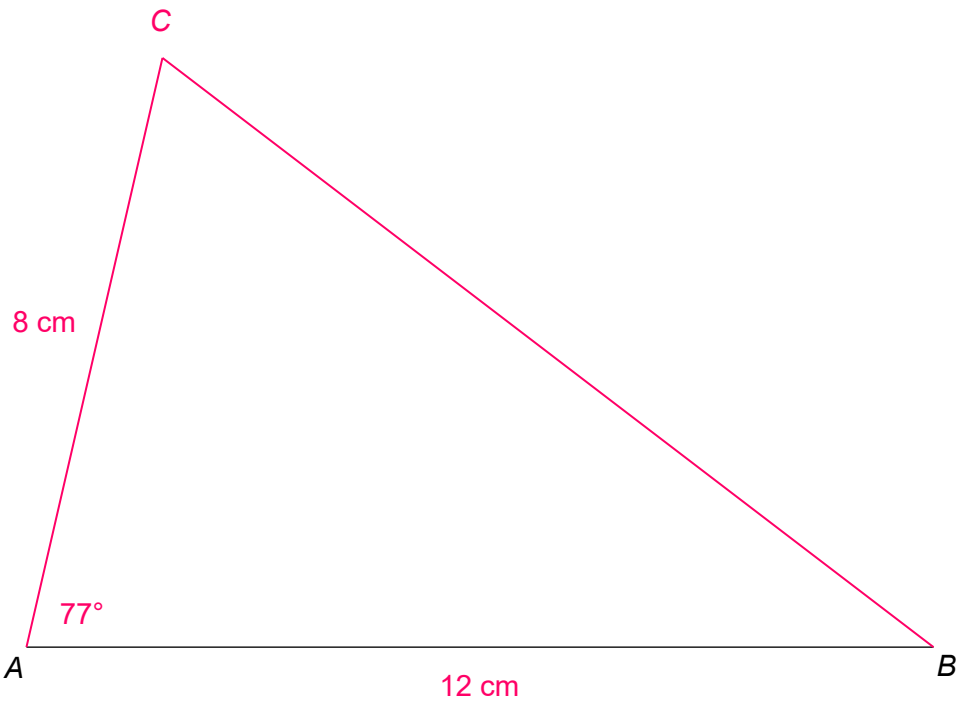
6

Solutions

12 *ABC* is a triangle.

AB = 12 cm
Angle *BAC* = 77°
AC = 8 cm

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



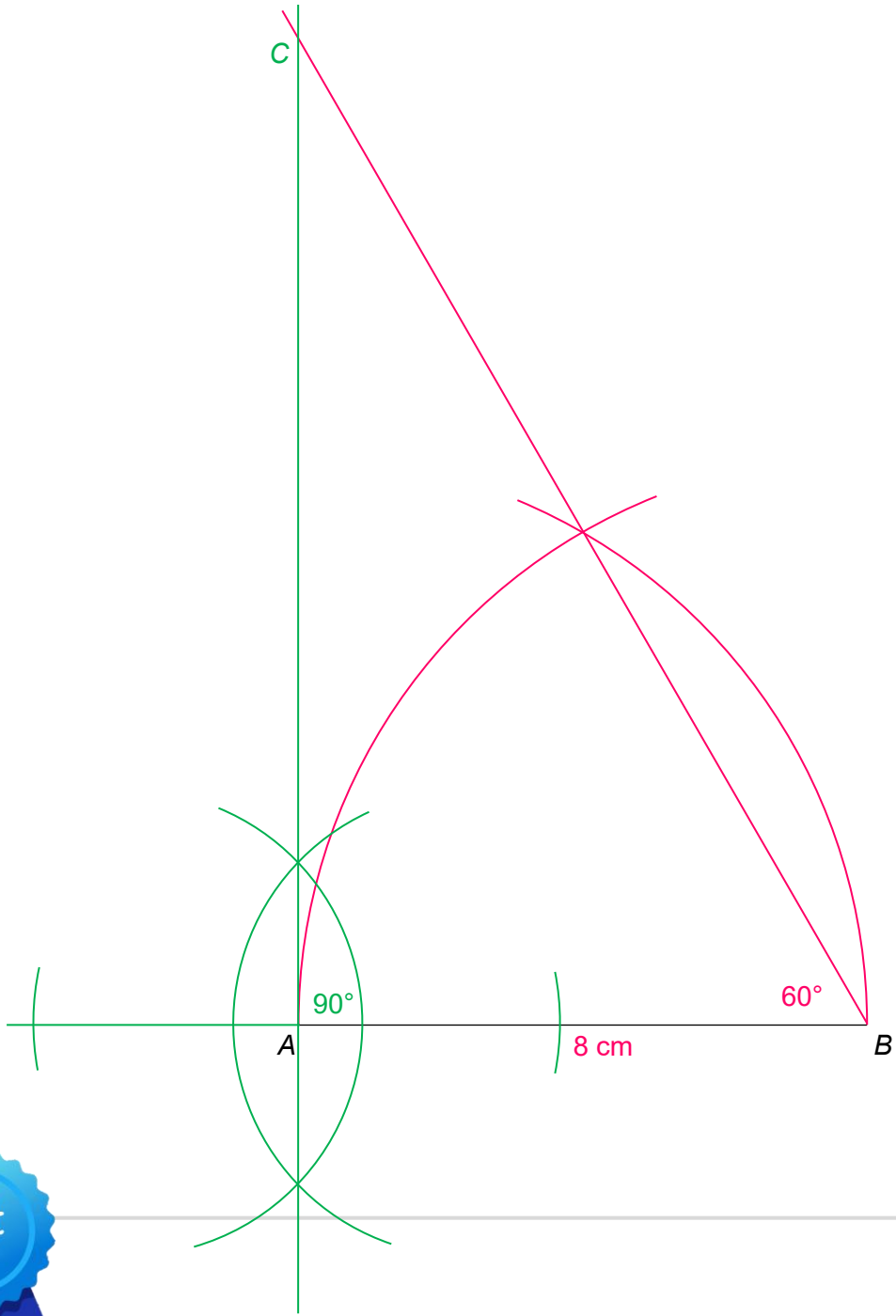
Solutions

13 *ABC* is a triangle.

AB = 8 cm
Angle *ABC* = 60°
Angle *CAB* = 90°

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

You should use only a ruler and compasses for this question. **[4 marks]**



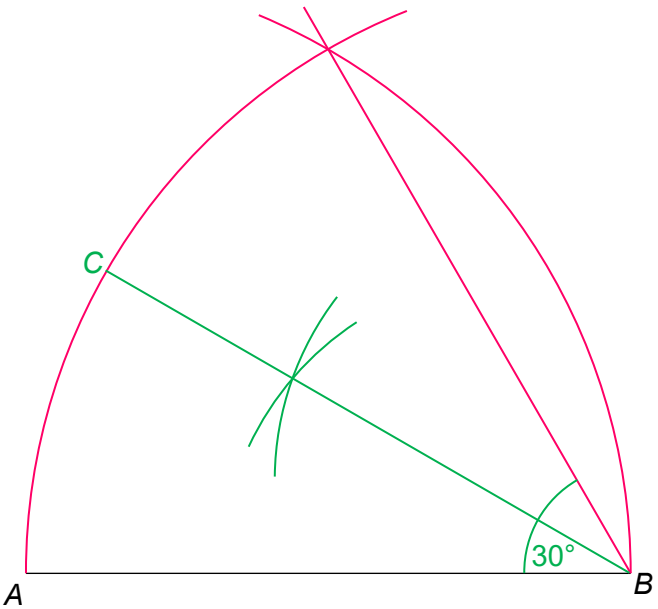
6

Turn over ►

Solutions

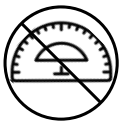
14 Angle *ABC* = 30°

Use a ruler and compasses to construct angle *ABC*. **[4 marks]**



Solutions

15 *ABC* is an isosceles triangle.



AB = 8 cm
AC = *BC*

The area of triangle *ABC* is 40 cm^2

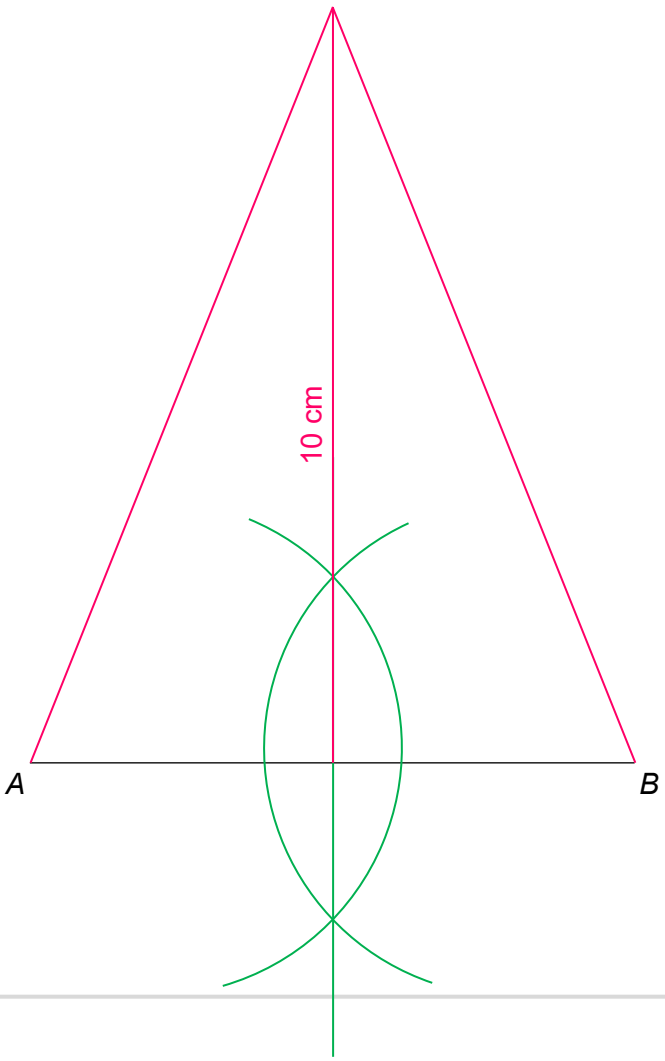
In the space below, construct an accurate drawing of triangle *ABC*.

You should use only a ruler and compasses for this question. **[4 marks]**

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

$4h = 40$

$h = 10$ cm



8

Solutions