Constructions

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REVISE THIS TOPIC

CHECK YOUR ANSWERS

SCAN ME

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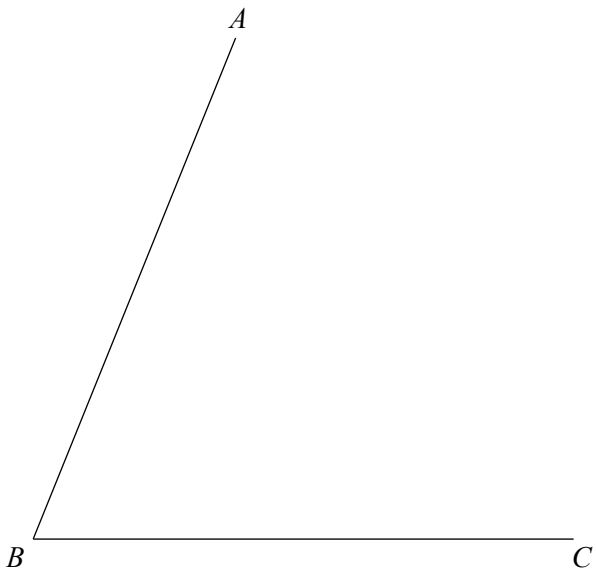
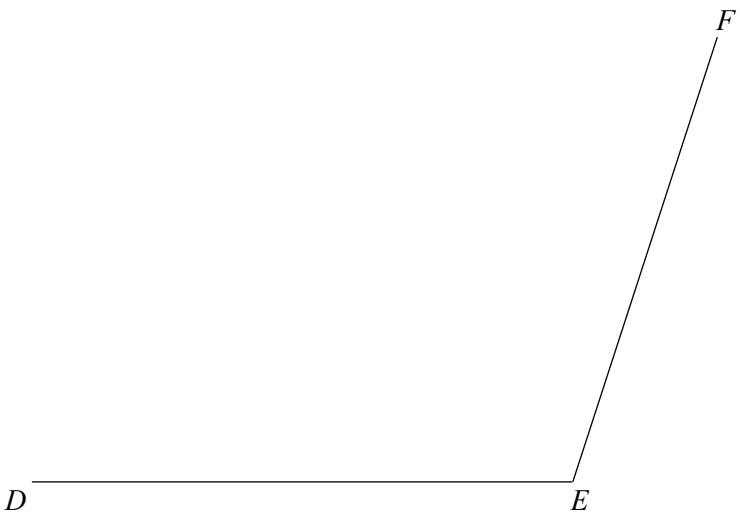
1 Use a ruler and compasses to construct the bisector of angle *ABC*.



(Total for Question 1 is 2 marks)

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

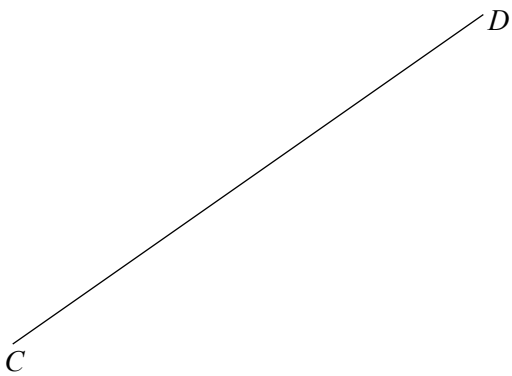


(Total for Question 2 is 2 marks)

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

(Total for Question 3 is 2 marks)

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

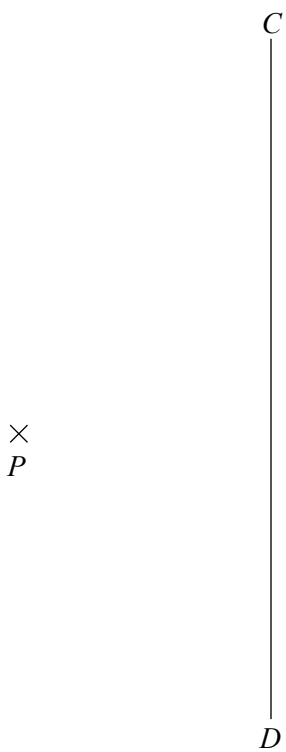


(Total for Question 4 is 2 marks)

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.

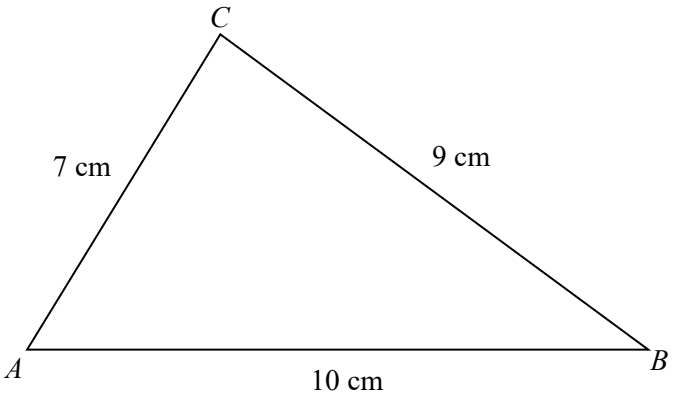
(Total for Question 5 is 2 marks)

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



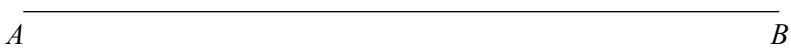
(Total for Question 6 is 2 marks)

7 A sketch of triangle ABC is shown.



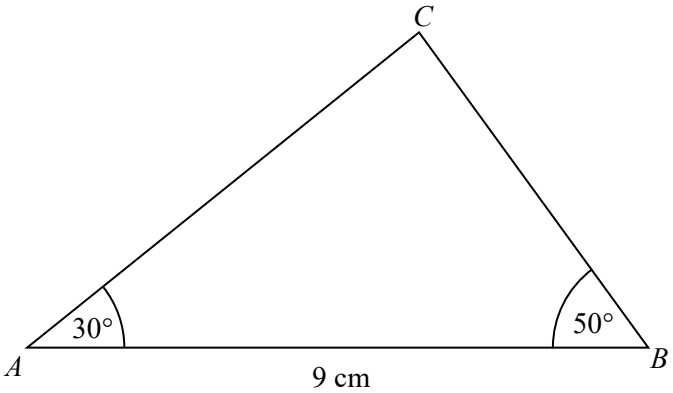
In the space below, construct an accurate drawing of triangle ABC.

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

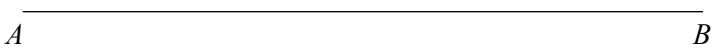


(Total for Question 7 is 2 marks)

8 A sketch of triangle ABC is shown.

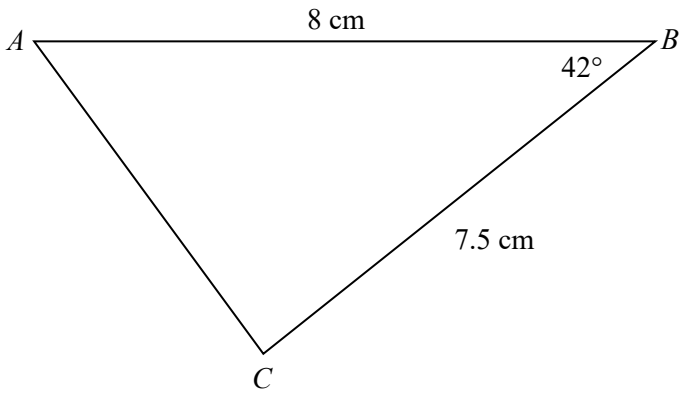


In the space below, complete an accurate drawing of triangle ABC.



(Total for Question 8 is 2 marks)

9 A sketch of triangle ABC is shown.

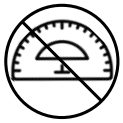


In the space below, complete an accurate drawing of triangle ABC.

(Total for Question 9 is 2 marks)

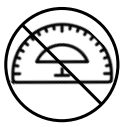
Solutions

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



(Total for Question 10 is 2 marks)

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



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

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

(Total for Question 11 is 2 marks)

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.

(Total for Question 12 is 2 marks)

13 ABC is a triangle.

$AB = 8$ cm
Angle $ABC = 60°$
Angle $ABC = 90°$

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

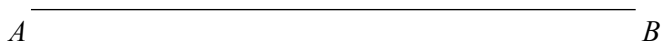
You should use only a ruler and compasses for this question.

A _____ B

(Total for Question 13 is 4 marks)

14 Angle $ABC = 30°$

Use a ruler and compasses to construct angle ABC.



(Total for Question 14 is 4 marks)

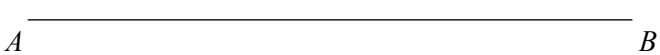
15 ABC is an isosceles triangle.

$AB = 8$ 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.



(Total for Question 15 is 4 marks)