# The Sine Rule

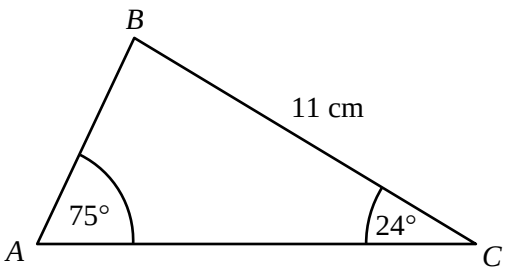
REVISE THIS TOPIC

CHECK YOUR ANSWERS

SCAN ME

SCAN ME

**1** Here is triangle *ABC*.

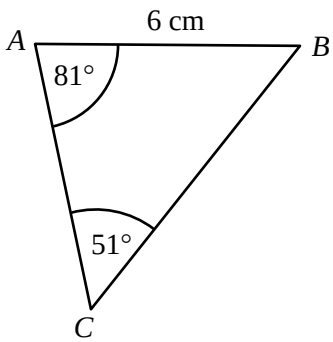



Work out the length of *AB*.
Give your answer to 1 decimal place.

..... cm

**(Total for Question 1 is 3 marks)**

**2** Here is triangle *ABC*.

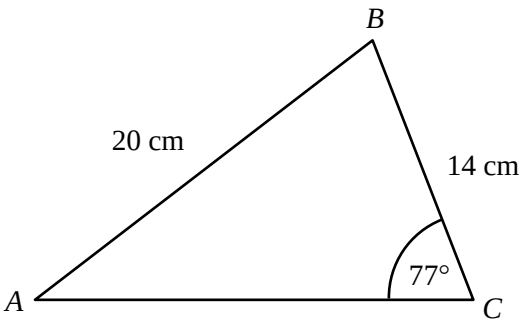



Work out the length of *BC*.
Give your answer to 1 decimal place.

..... cm

**(Total for Question 2 is 3 marks)**

**3** Here is triangle *ABC*.

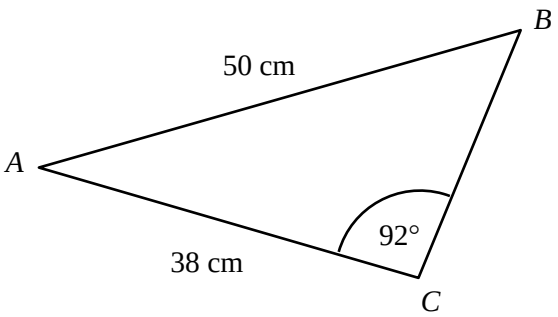



Work out the size of angle *BAC*.
Give your answer to 1 decimal place.

.....°

**(Total for Question 3 is 3 marks)**

**4** Here is triangle *ABC*.

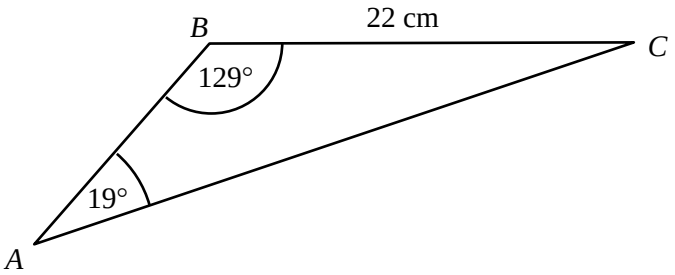



Work out the size of angle *ABC*.
Give your answer to 1 decimal place.

.....°

**(Total for Question 4 is 3 marks)**

**5** Here is triangle *ABC*.

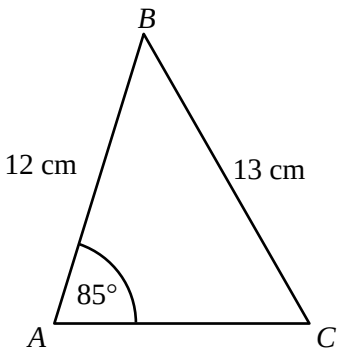



Work out the length of *AC*.
Give your answer to 1 decimal place.

..... cm

**(Total for Question 5 is 3 marks)**

**6** Here is triangle *ABC*.



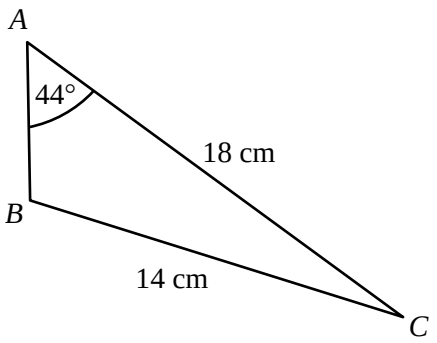

Work out the size of angle *BCA*.
Give your answer to 1 decimal place.

°

.....

**(Total for Question 6 is 3 marks)**

**7** Here is triangle *ABC*.

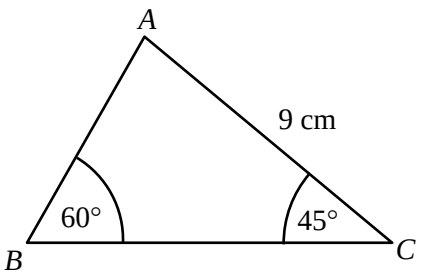



Work out the size of angle *ABC*.
Give your answer to 1 decimal place.

.....°

**(Total for Question 7 is 3 marks)**

**8** Here is triangle *ABC*.

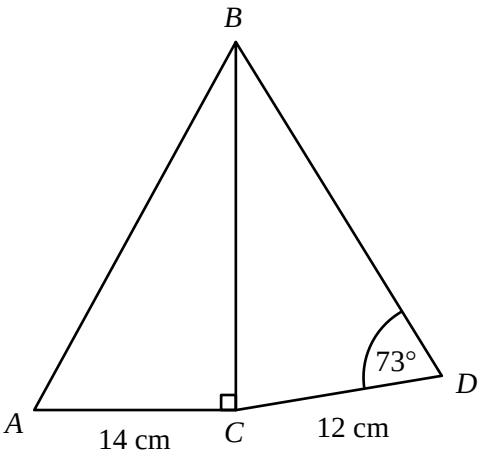



Work out the length of *AB*.
Give your answer in the form $k\sqrt{6}$ , where $k$ is an integer.

..... cm

**(Total for Question 8 is 4 marks)**

**9** *ABC* and *BCD* are triangles.



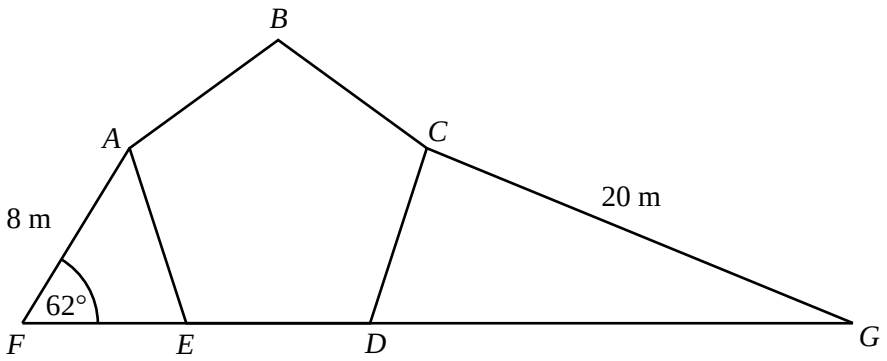

The area of triangle *ABC* is 154 $cm^2$
Work out the size of angle *ABD*.

°

.....

**(Total for Question 9 is 5 marks)**

**10** *ABCDE* is a regular pentagon
*AEF* and *CDG* are triangles.
*FEDG* is a straight line.

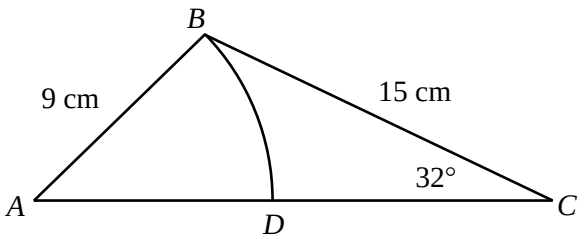



Work out the size of angle *CGD*.

.....°

**(Total for Question 10 is 6 marks)**

**11** *ABC* is a triangle.
*ABD* is a sector with centre *A*.




Work out the area of sector *ABD*.

..... $cm^2$

**(Total for Question 11 is 5 marks)**