



Retrieve: get ready to practise

Name: _____ Date: _____

Work independently first. Show your working. Use the help page if you get stuck, then try again.

Help links to the skill page; its video is coming soon. The answers QR opens worked solutions for this exact worksheet.



Skill help



Worked answers

R01

In triangle ABC, name the side opposite angle B.

R02

Two angles in a triangle are 54° and 63° . Find the third angle.

R03

Round 12.846 to 3 significant figures.

R04

Calculate $\sin 40^\circ$. Give your answer to 3 decimal places.

Before you continue

Match opposite side-angle pairs. Set your calculator to degree mode.

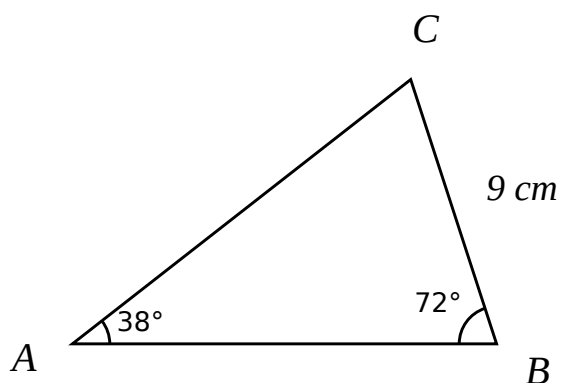
Diagrams are not drawn to scale. Show your method and round only at the end.



Practise: find missing sides

F01

Calculate AC. Give your answer to 3 significant figures.

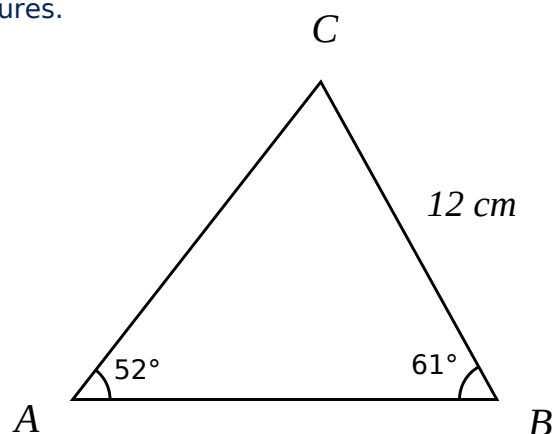


Working:

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F02

Calculate AC. Give your answer to 3 significant figures.

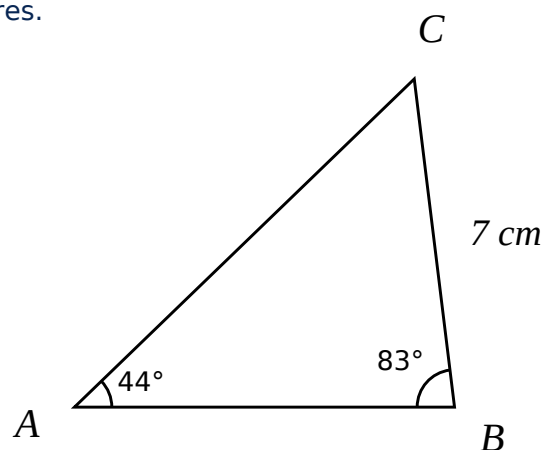


Working:

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F03

Calculate AC. Give your answer to 3 significant figures.

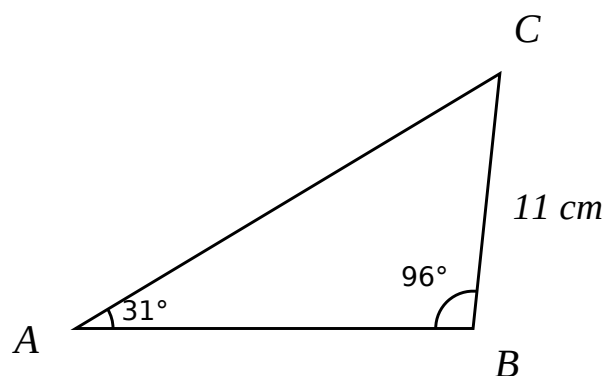


Working:

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F04

Calculate AC. Give your answer to 3 significant figures.



Working:

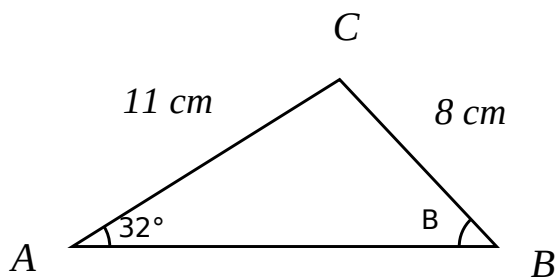
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Develop and apply

D01

Angle B is acute. Calculate B to 1 decimal place.

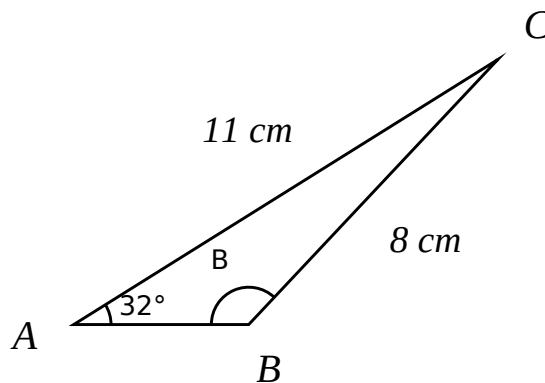


Working:

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D02

Angle B is obtuse. Calculate B to 1 decimal place.

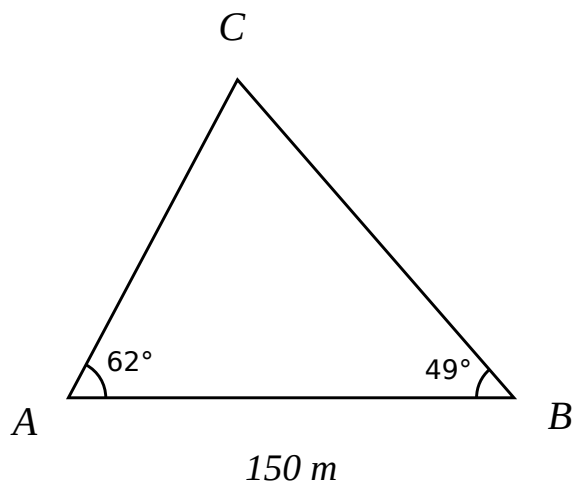


Working:

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A01 A route problem

Three checkpoints form triangle ABC. $AB = 150$ m, angle $BAC = 62^\circ$ and angle $ABC = 49^\circ$. Calculate angle ACB.



A01a Find angle ACB.

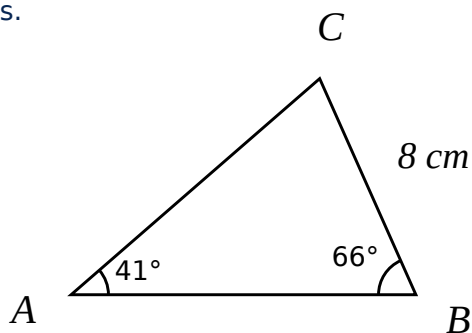
A01b Calculate the direct distance AC. Give your answer to 3 significant figures.



Independent practice

H01

Calculate AC. Give your answer to 3 significant figures.

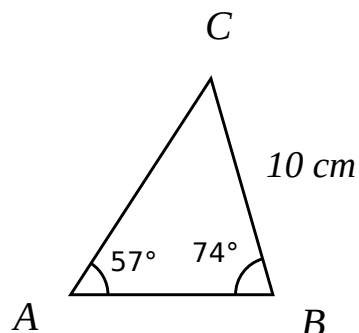


Working:

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H02

Calculate AC. Give your answer to 3 significant figures.

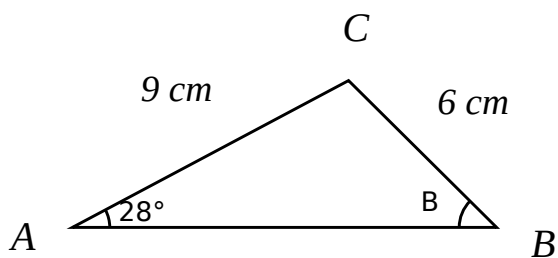


Working:

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H03

Angle B is acute. Calculate B to 1 decimal place.

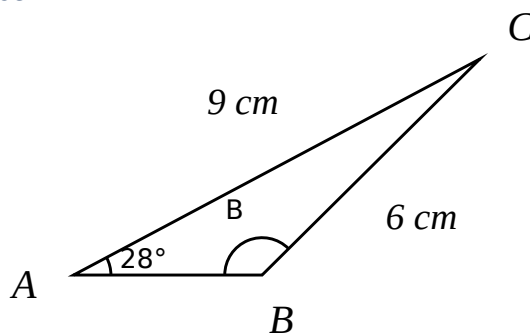


Working:

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H04

Angle B is obtuse. Calculate B to 1 decimal place.



Working:

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H05

Two angles in a triangle are 37° and 81° . Find the third angle.

H06

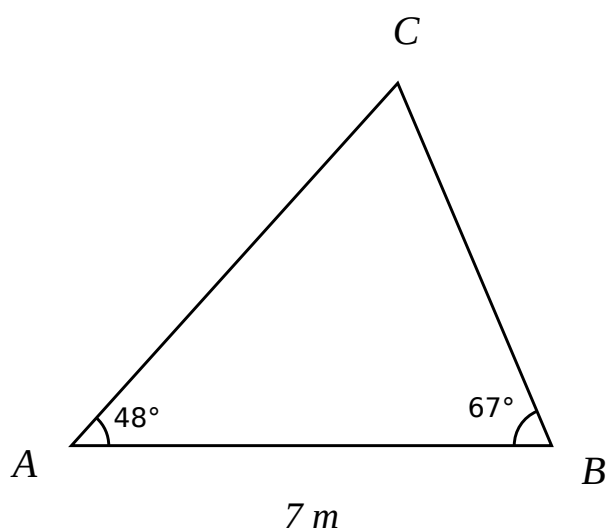
Round 0.087463 to 3 significant figures.



Independent practice: apply your skills

H07

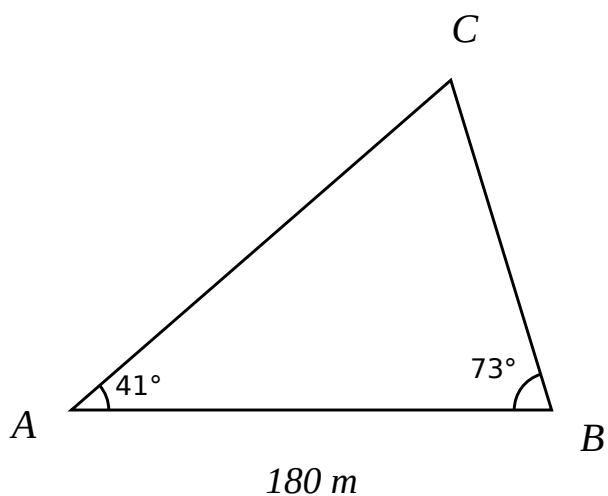
A triangular sail has $AB = 7\text{ m}$, angle $BAC = 48^\circ$ and angle $ABC = 67^\circ$. Calculate the length of edge AC to 3 significant figures.



Working:

H08

Three survey points form triangle ABC . $AB = 180\text{ m}$, angle $BAC = 41^\circ$ and angle $ABC = 73^\circ$. Calculate AC to 3 significant figures. Is the direct route AC shorter than 190 m ? Justify your answer.



Working: