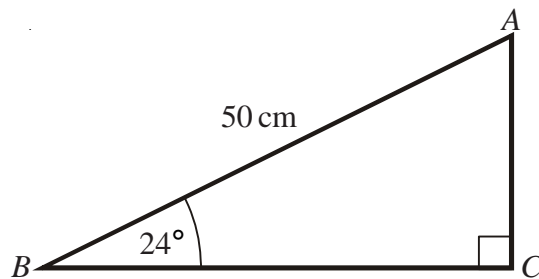


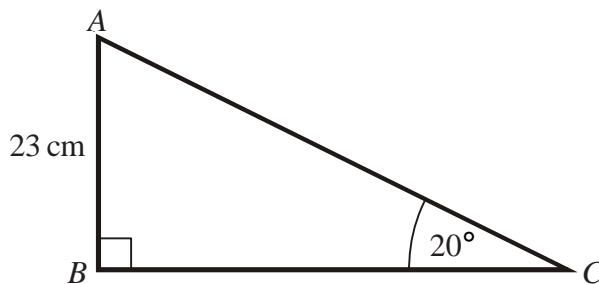
Trigonometry



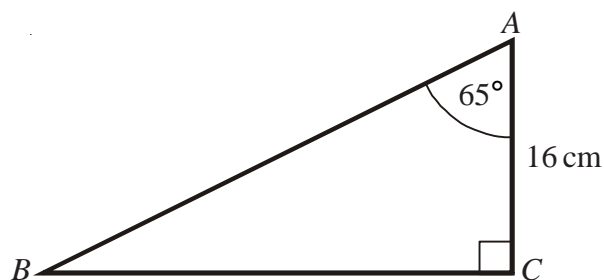
- 1) ABC is a right-angled triangle.
 $AB = 50$ cm.
 Angle $ABC = 24^\circ$
 Work out the length of BC .
 Give your answer correct to 1 decimal place.



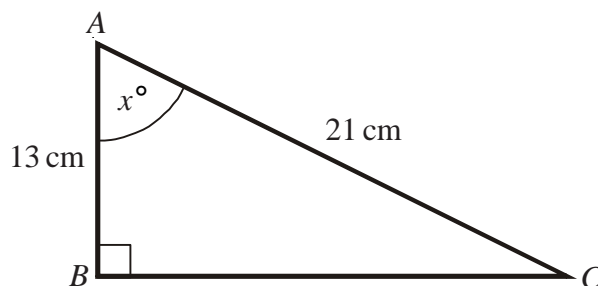
- 2) ABC is a right-angled triangle.
 $AB = 23$ cm.
 Angle $BCA = 20^\circ$
 Work out the length of AC .
 Give your answer correct to 1 decimal place.



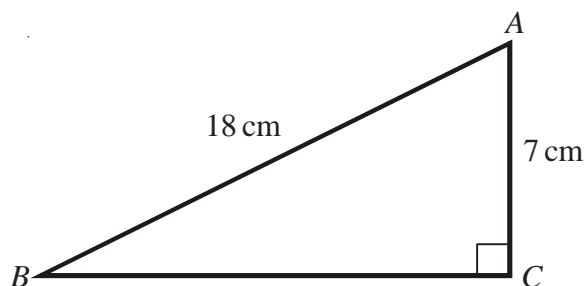
- 3) ABC is a right-angled triangle.
 $AC = 16$ cm.
 Angle $CAB = 65^\circ$
 Work out the length of BC .
 Give your answer correct to 1 decimal place.



- 4) ABC is a right-angled triangle.
 $AB = 13$ cm.
 $AC = 21$ cm.
 Work out the size of angle x .
 Give your answer correct to 1 decimal place.



- 5) ABC is a right-angled triangle.
 $AB = 18$ cm.
 $AC = 7$ cm.
 Work out the size of angle ABC .
 Give your answer correct to 1 decimal place.

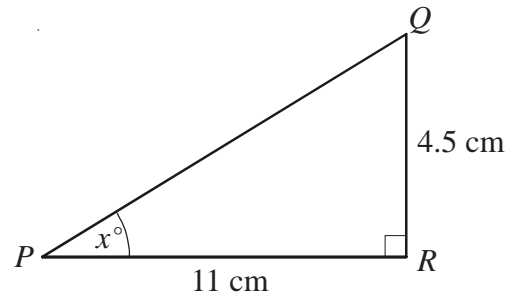


Trigonometry



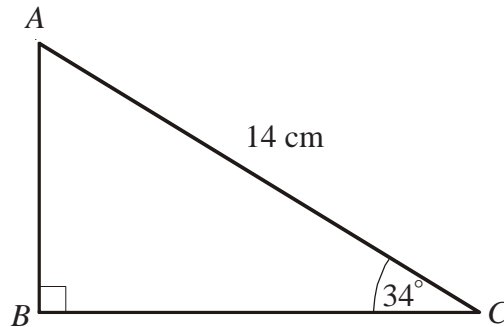
- 1) PQR is a right-angled triangle.
 $PR = 11$ cm.
 $QR = 4.5$ cm
 Angle $PRQ = 90^\circ$

Work out the value of x .
 Give your answer correct to 1 decimal place.



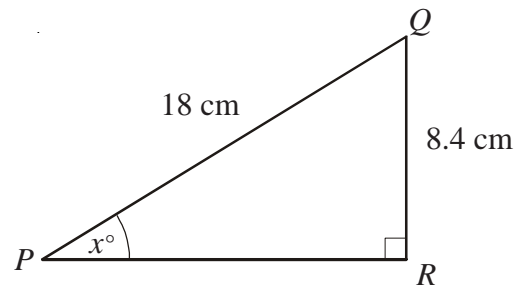
- 2) $AC = 14$ cm.
 Angle $ABC = 90^\circ$
 Angle $ACB = 34^\circ$

Calculate the length of BC .
 Give your answer correct to 3 significant figures.



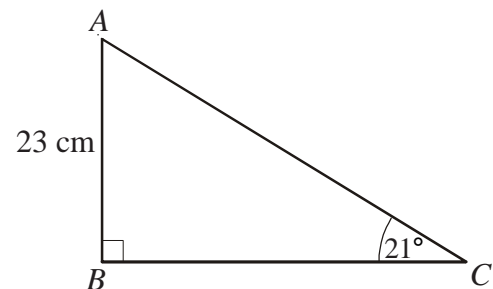
- 3) PQR is a right-angled triangle.
 $PQ = 18$ cm.
 $QR = 8.4$ cm
 Angle $PRQ = 90^\circ$

Work out the value of x .
 Give your answer correct to 1 decimal place.



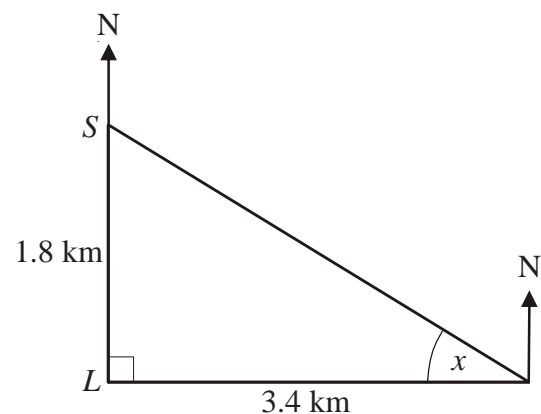
- 4) $AB = 23$ cm.
 Angle $ABC = 90^\circ$
 Angle $ACB = 21^\circ$

Calculate the length of AC .
 Give your answer correct to 3 significant figures.



- 5) A lighthouse, L , is 3.4 km due West of a port, P .
 A ship, S , is 1.8 km due North of the lighthouse, L .

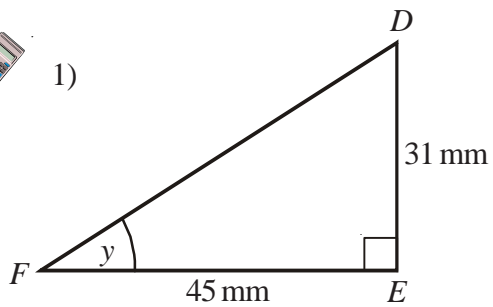
Calculate the size of the angle marked x .
 Give your answer correct to 3 significant figures.



Trigonometry



1)

 DEF is a right-angled triangle.

$DE = 31\text{ mm}$

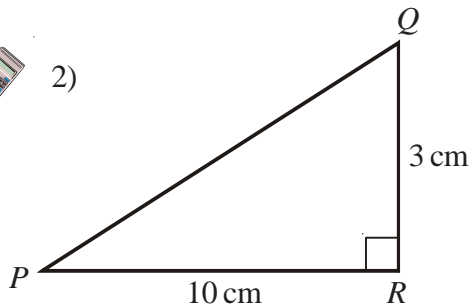
$FE = 45\text{ mm}$

Calculate the size of angle y .

Give your answer correct to one decimal place.



2)

 PQR is a right-angled triangle.

$QR = 3\text{ cm}$

$PR = 10\text{ cm}$

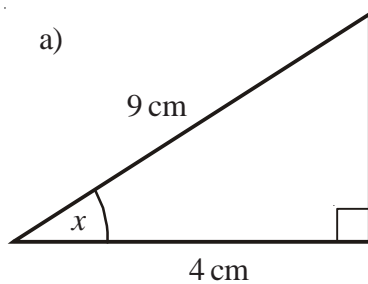
Work out the size of angle RPQ .

Give your answer correct to three significant figures.



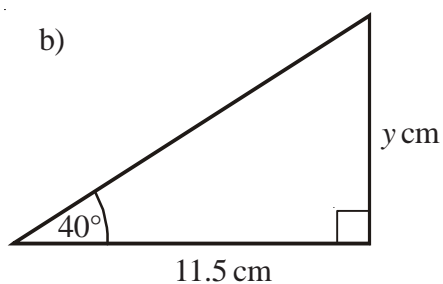
3)

a)

Calculate the size of the angle marked x .

Give your answer correct to one decimal place.

b)

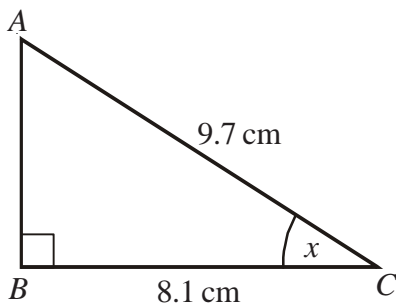
Calculate the value of y .

Give your answer correct to one decimal place.

Trigonometry



1)

 ABC is a right-angled triangle.

$AC = 9.7$ cm

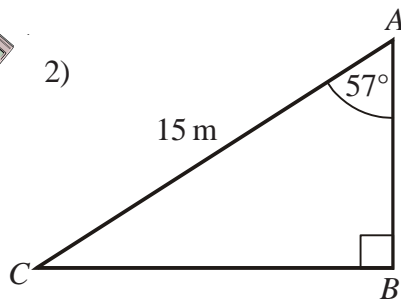
$BC = 8.1$ cm

Calculate the size of the angle marked x .

Give your answer correct to three significant figures.



2)

 ABC is a right-angled triangle.

$AC = 15$ m

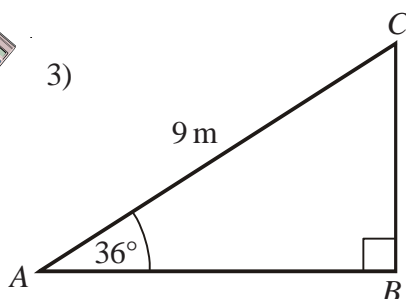
Angle $CAB = 57^\circ$

Calculate the length of AB .

Give your answer correct to three significant figures.



3)

 ABC is a right-angled triangle.

$AC = 9$ m

Angle $CAB = 36^\circ$

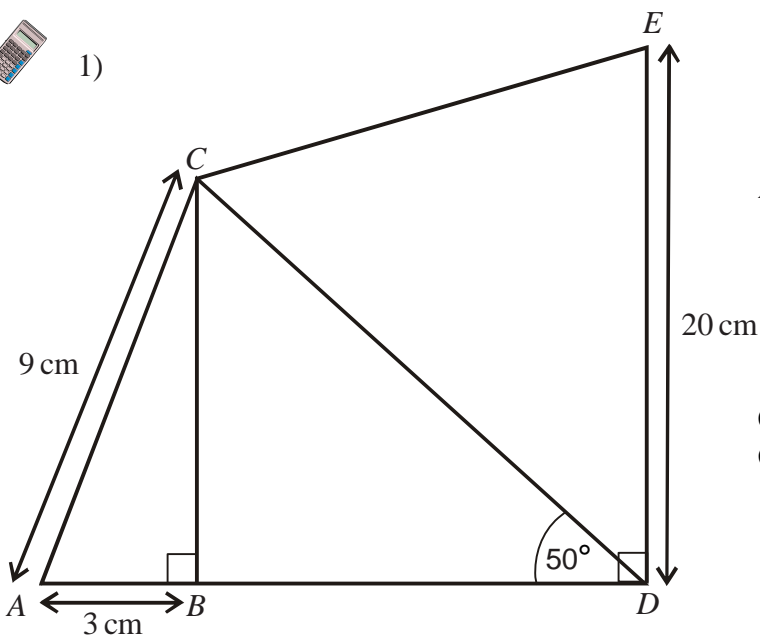
Calculate the length of AB .

Give your answer correct to three significant figures.

Trigonometry



1)

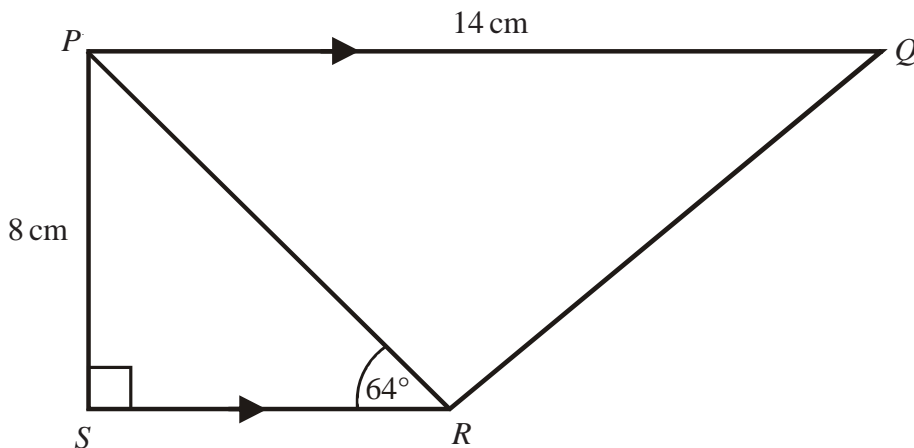


$AC = 9 \text{ cm}$
 $AB = 3 \text{ cm}$
 $DE = 20 \text{ cm}$
 Angle $ABC = \text{angle } CBD = \text{angle } BDE = 90^\circ$

Calculate the length of CD .
 Give your answer to 3 significant figures.



2)



Work out the length of PR .
 Give your answer correct to 3 significant figures.

$PQRS$ is a trapezium.
 PQ is parallel to SR .
 Angle $PSR = 90^\circ$
 Angle $PRS = 64^\circ$
 $PQ = 14 \text{ cm}$.
 $PS = 8 \text{ cm}$.