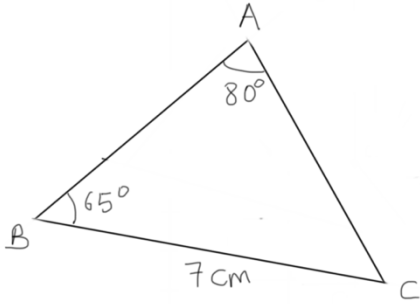


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A STAR MATHS (www.astarmaths.com.au)

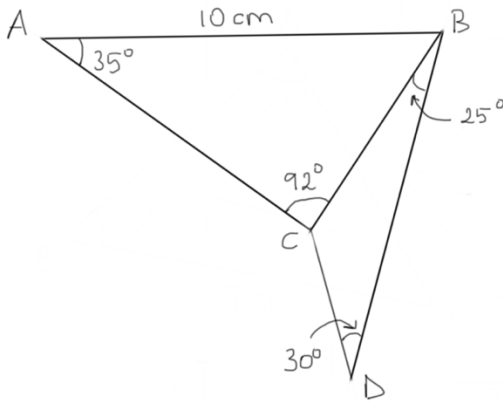
1.



The diagram shows a triangle ABC. Calculate

- a) the length of AC
- b) the length of AB

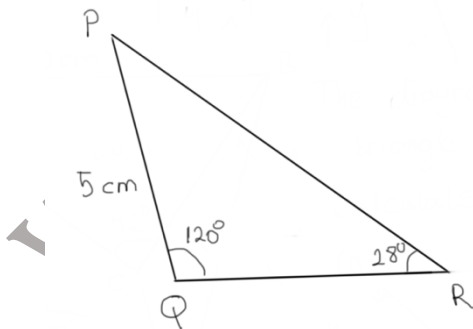
2.



In the diagram, ABC and BCD are two triangles. Calculate

- a) the length of BC
- b) the length of BD.

3.

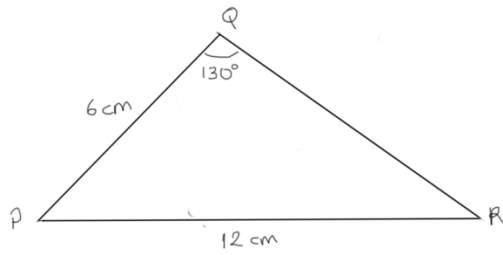


The diagram shows a triangle PQR.

Calculate

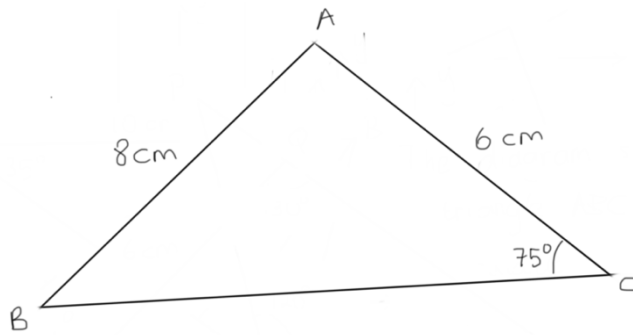
- a) the length of PR.
- b) the length of QR.

4.



The diagram shows a triangle PQR. Calculate $\angle QPR$.

5.



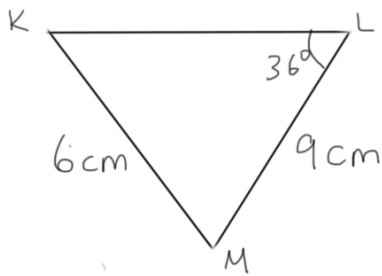
The diagram shows a triangle ABC. Calculate

- $\angle ABC$
- $\angle BAC$

- Given ABC is a triangle with $AB=7$ cm, $AC=5$ cm and $\angle ABC = 32^\circ$. Calculate $\angle ACB$.
 - Given PQR is a triangle with $PQ=12$ cm, $PR=15$ cm and $\angle PQR = 50^\circ$. Calculate $\angle PRQ$.

- Given PQR is a triangle with $PQ=10$ cm, $PR=8$ cm and $\angle PQR = 45^\circ$.
 - Sketch two triangles of different shapes with the given measurements.
 - Calculate $\angle PRQ$ for each of the triangles sketched.

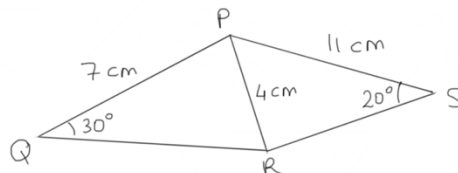
8.



The diagram shows a triangle KLM. Calculate

- a) $\angle LKM$
- b) the length of KL.

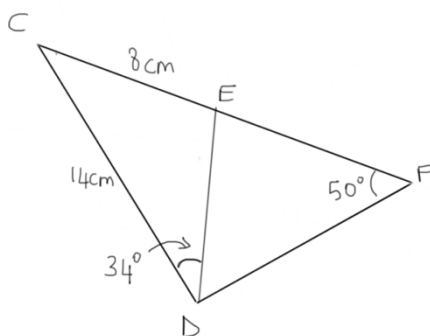
9.



The diagram shows two triangles, PQR and PRS. Calculate

- a) $\angle PRQ$
- b) $\angle RPS$

10.

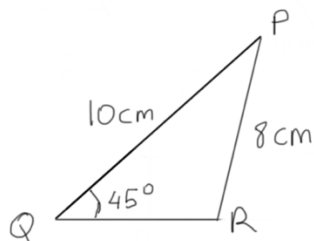
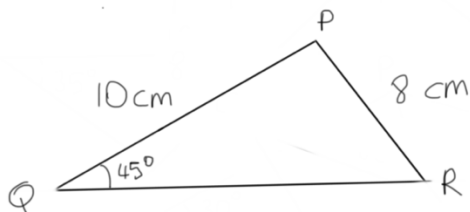


In the diagram, CEF is a straight line. Calculate

- a) $\angle CED$.
- b) the length of EF.

ANSWER KEY

1. a) 6.442 cm
b) 4.077 cm
2. a) 5.739 cm
b) 9.402 cm
3. a) 9.223 cm
b) 5.644 cm
4. $27^{\circ}29'$
5. a) $46^{\circ}25'$
b) $58^{\circ}35'$
6. a) $47^{\circ}54'$
b) $132^{\circ}6'$
7. a)



- c) $62^{\circ}7'$; $117^{\circ}53'$

8. a) $61^{\circ}51'$
b) 10.11 cm
9. a) $61^{\circ}3'$
b) $50^{\circ}9'$
10. a) $101^{\circ}53'$
b) 10.23 cm