

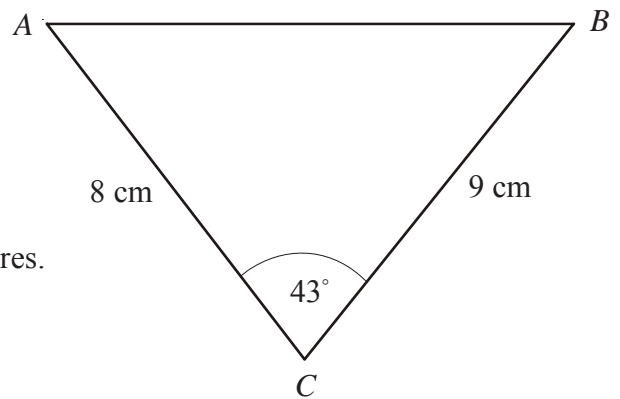
The Cosine Rule



- 1) ABC is a triangle.
 $AC = 8$ cm
 $BC = 9$ cm
 Angle $ACB = 43^\circ$

Calculate the length of AB .

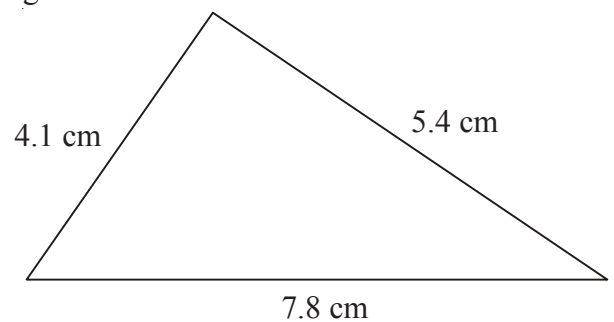
Give your answer correct to 3 significant figures.



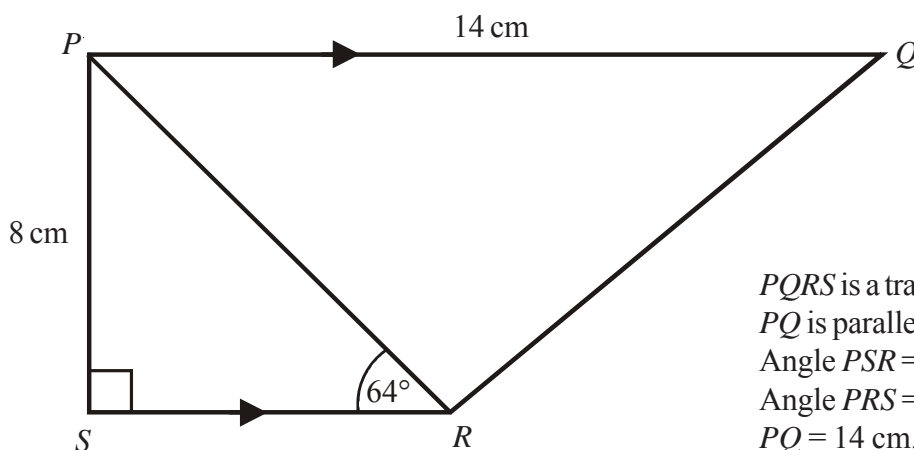
- 2) The lengths of the sides of a triangle are 4.1 cm, 5.4 cm and 7.8 cm.

Calculate the size of the largest angle of the triangle.

Give your answer correct to 1 decimal place.



3)



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

- a) Work out the length of PR .
 Give your answer correct to 3 significant figures.
- b) Work out the length of QR .
 Give your answer correct to 3 significant figures.