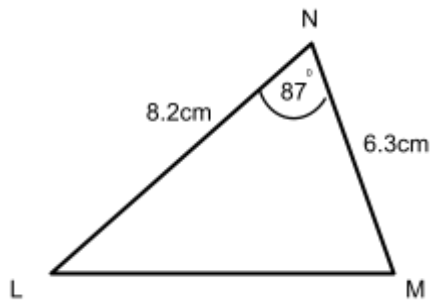


# QT - The Cosine Rule



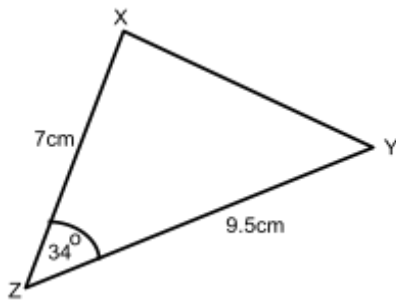
1. Work out the length LM correct to 3 significant figures.

(3 marks)



2. Work out the length XY correct to 3 significant figures.

(3 marks)

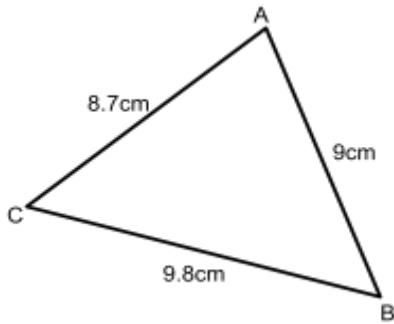


# QT - The Cosine Rule



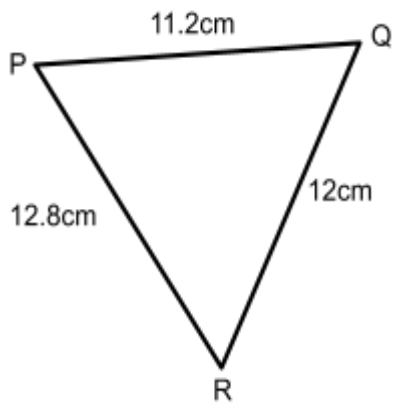
3. Find the size of angle ABC correct to 1 decimal place.

(3 marks)



4. Find the size of angle PQR correct to 2 decimal places.

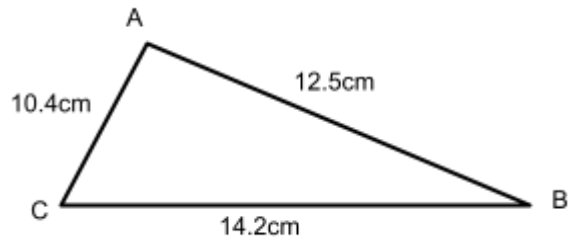
(3 marks)



## QT - The Cosine Rule



5. Work out the area of triangle ABC. Give your answer to a suitable degree of accuracy.  
(4 marks)



6. Two airplanes leave an airport.  
Airplane A flies on a bearing of  $075^\circ$  for 600km, and then lands.  
Airplane B flies on a bearing of  $135^\circ$  for 450km and then lands.  
How far apart are the two aircraft when they land?

(4 marks)

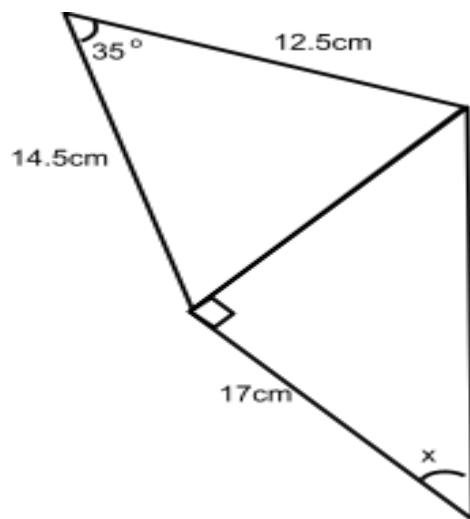
# QT - The Cosine Rule



7. Find the value of  $x$ .

Give your answer correct to 2 decimal place.

(5 marks)



## QT - The Cosine Rule



8. ABCD is a quadrilateral.

Angle BCA is  $39^\circ$

Work out the area of ABCD.

Give your answer correct to 3 significant figures.

(5 marks)

