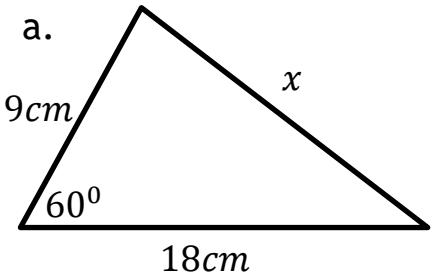
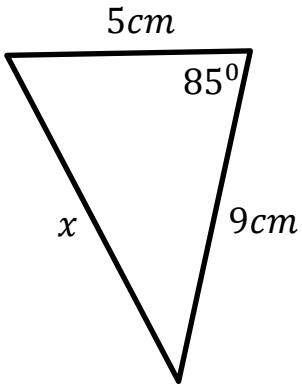
Cosine Rule

1. Find the lenth of the side marked x:

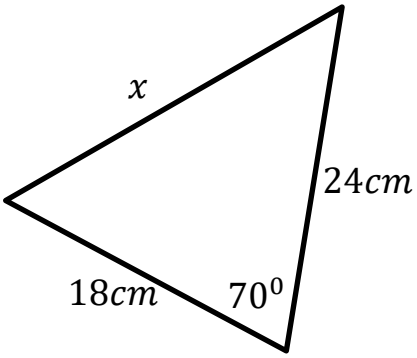
a.



b.

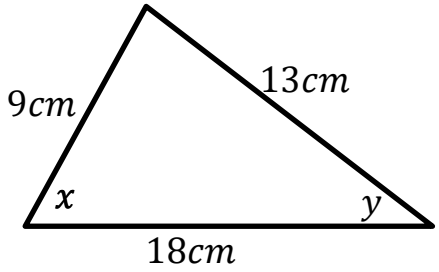


c.

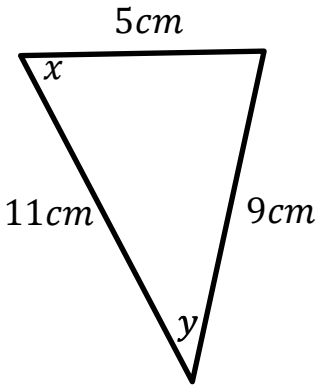


2. Find the size of the angles marked x and y in each of the triangles below

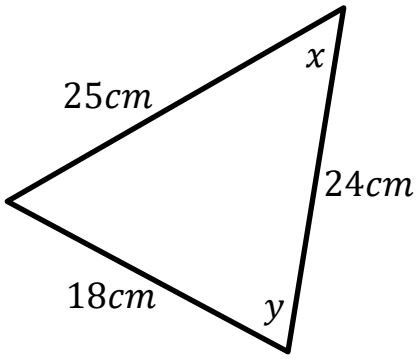
a.



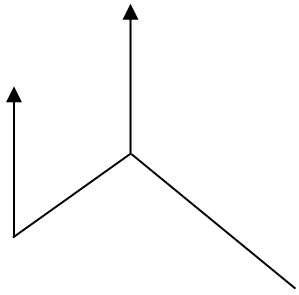
b.



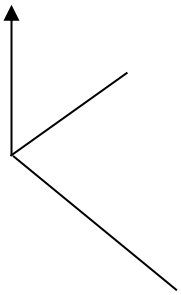
c

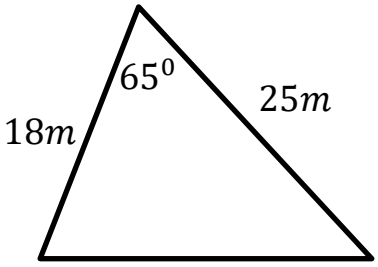


3. A boat traveled on a bearing of 70^0 for $60km$ then a further $100km$ on a bearing of 130^0.
How far are they if they from the port?



4. Boat Alpha leaves the port on a bearing of 60^0 for $70km$
Boat Delta leaves the port on a bearing of 130^0 for $100km$.
How far are the boats apart at this point?



5. A gardener wants to build a fence around a piece of land shaped as a triangle.
The fence is sold in packs of $1.8m$ at £32 a pack.

Calculate the total cost to fence the perimeter.