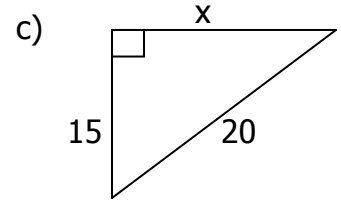
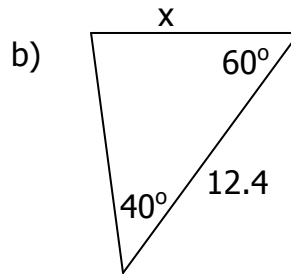
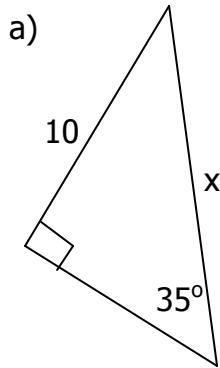
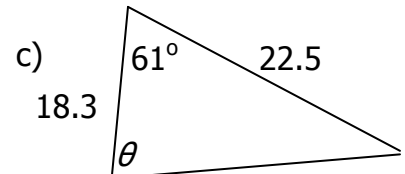
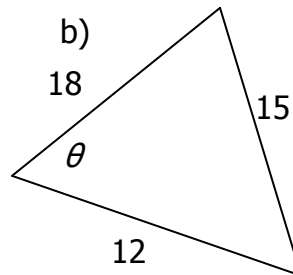
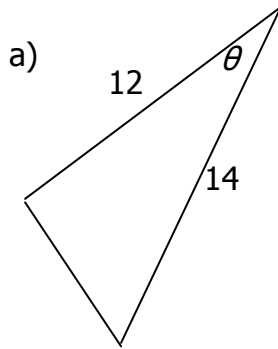


1. Find the missing side in each triangle



2. Find the missing angle in each triangle



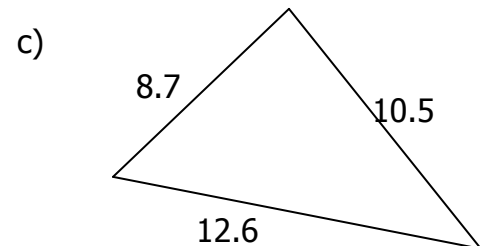
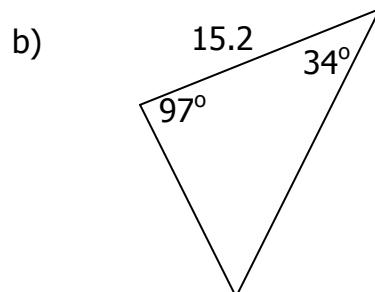
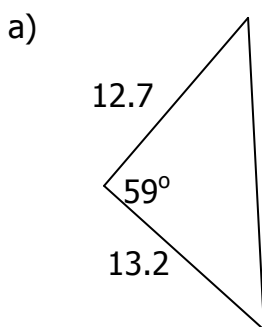
3. a) In $\triangle DEF \rightarrow d = 5, e = 8$ and $f = 11$. Calculate $\angle E$

b) In $\triangle ABC \rightarrow a = 5, c = 6$ and $\angle A$. Calculate 'b'

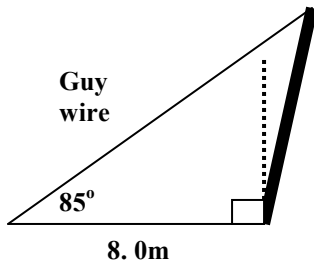
c) In $\triangle ABC \rightarrow a = 11.4, c = 7.1$ and $\angle C = 36^\circ$. Solve $\triangle ABC$

d) In a Δ , two angle measures are 24° and 69° . The longest side is 55.0 m in length. Find the length of the shortest side.

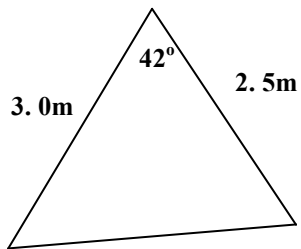
4. Calculate the area of each triangle below.



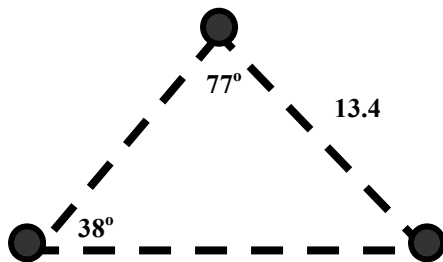
5. A telephone pole casts a shadow 8.0 m long when the angle of elevation of the sun is 65° . The pole is 10° off vertical. Find the length of the pole.



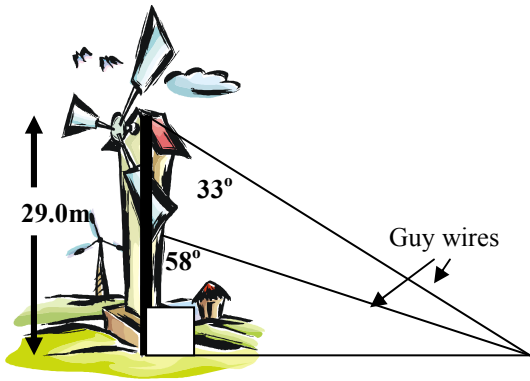
6. The sail on a windsurfer has dimensions as shown. Find the area of the sail.



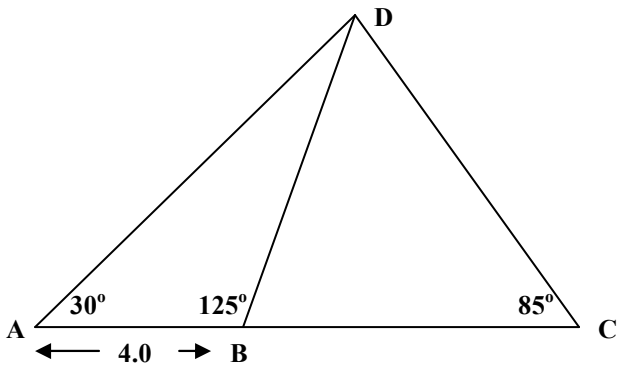
7. Three drill holes are located in a metal plate as shown. Determine the length of the side 'x'.



8. A windmill on a farm is supported by 2 guy wires as shown. Find the lengths of the two guy wires.



9. In the accompanying figure – find the length of CD. (one decimal place)



10. The area of ΔABC is 130m^2 . If $a = 22$ and $b = 17$ find the length of 'c'.