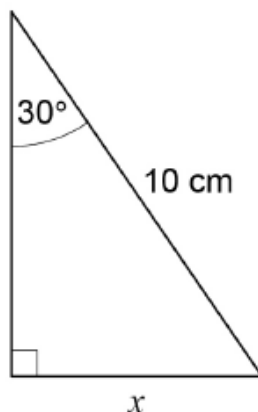


AQA – Mensuration and calculations – GCSE Mathematics Paper 1

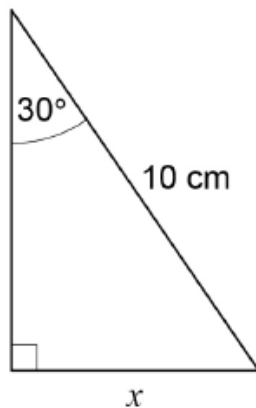
1. June/2021/Paper_1F/No.31

Here is a right-angled triangle.

Not drawn
accuratelyUse trigonometry to work out the value of x .**[3 marks]**

Answer _____ cm

2. June/2021/Paper_1H/No.12
Here is a right-angled triangle.



Not drawn
accurately

Use trigonometry to work out the value of x .

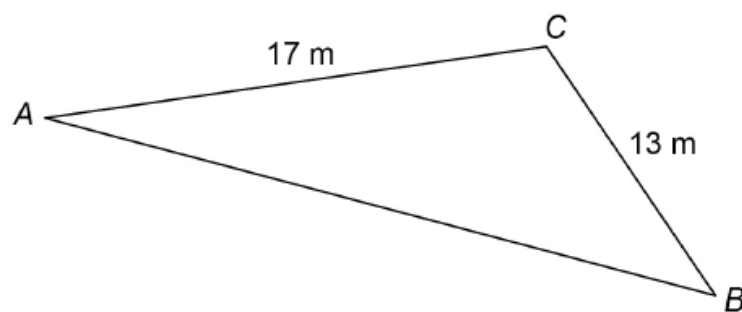
[3 marks]

Answer _____ cm

3. June/2021/Paper_1H/No.18

(a) Here is a triangle.

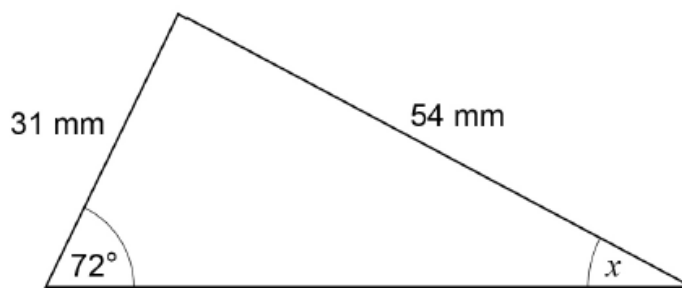
Not drawn
accurately



Give a reason why the length of side AB cannot be 35 m

[1 mark]

(b) Here is a different triangle.



Not drawn accurately

Leah tries to use the sine rule to work out the size of angle x .
Here are the first two lines of her working.

$$\frac{x}{\sin 31} = \frac{54}{\sin 72}$$

$$x = \frac{54 \sin 31}{\sin 72}$$

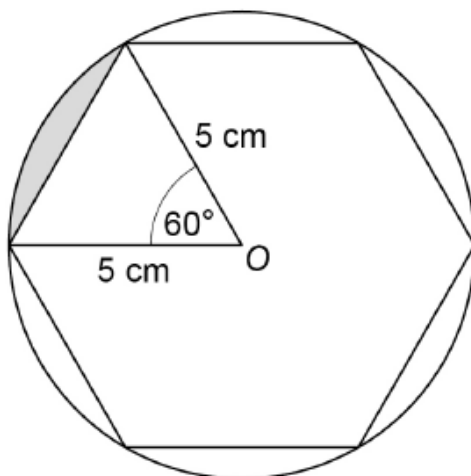
What error has she made in this working?

[1 mark]

4. June/2021/Paper_1H/No.27

The vertices of a regular hexagon lie on a circle with centre O and radius 5 cm

Not drawn
accurately



Work out the shaded area.

Give your answer in the form $\frac{a\pi - b\sqrt{c}}{12}$ where a , b and c are integers.

