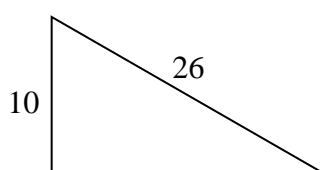


Section 1: Shape, geometrical constructions, circle theorem

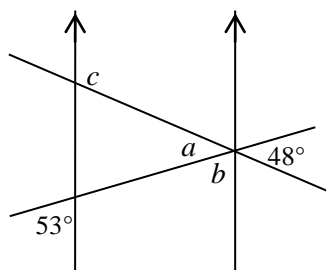
Exercise

- Find the circumference and area of a circle with diameter 12 cm.
- A cylinder has radius 5 cm and height 8 cm.
 - Find the volume of the cylinder.
 - Find the total surface area of the cylinder.
- Find the perimeter and area of the triangle shown below.

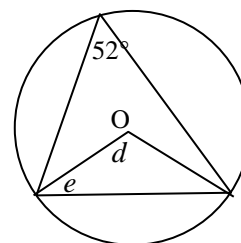


- Find the internal angle of a regular nonagon (nine sides).
- Find the angles marked with letters.

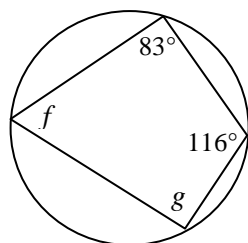
(i)



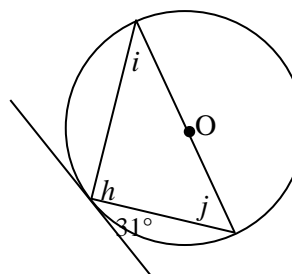
(ii)



(iii)

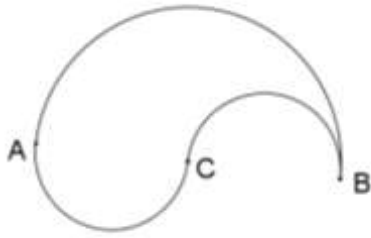


(iv)



AQA FM Geometry I 1 Exercise

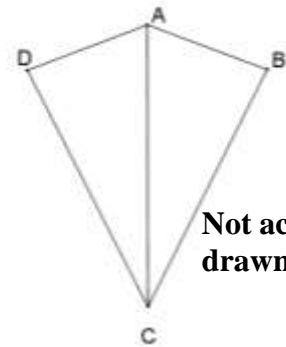
6. In the diagram below, C is the midpoint of AB.
The shape is made of three semicircles.
AB = 6 cm.



Find the area of the shape in terms of π .

7. ABCD is a kite. $AB = AD$.

A circle can be drawn, passing through A, B, C and D.
Prove that AC is a diameter of the circle.



**Not accurately
drawn**