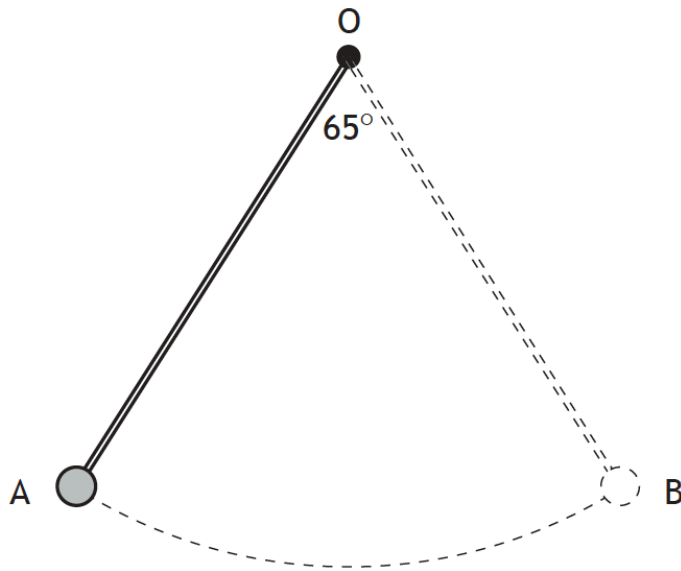


Marks are indicated in brackets after each question number

2015 Paper 2 Question 10, (4)

The pendulum of a clock swings along an arc of a circle, centre O.



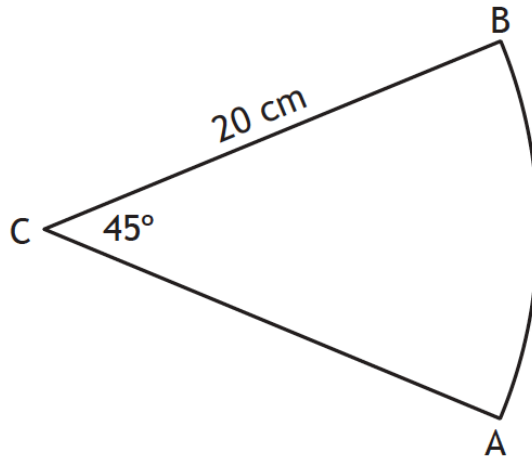
The pendulum swings through an angle of  $65^\circ$ , travelling from A to B.

The length of the arc AB is 28.4 centimetres.

Calculate the length of the pendulum.

2016 Paper 1 Question 3, (3)

The diagram shows a sector of a circle, centre C.



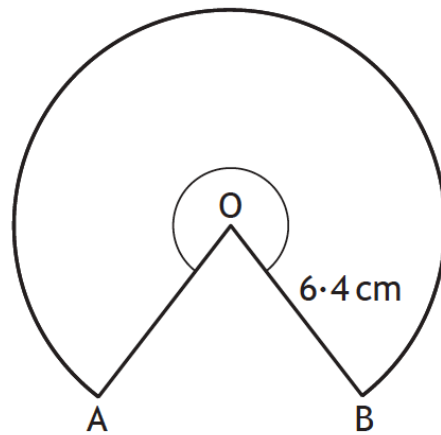
The radius of the circle is 20 centimetres and angle ACB is  $45^\circ$ .

Calculate the area of the sector.

Take  $\pi = 3.14$ .

2017 Paper 2 Question 14, (3)

The diagram below shows part of a circle, centre O.



The radius of the circle is 6.4 centimetres.

Major arc AB has length 31.5 centimetres.

Calculate the size of the reflex angle AOB.