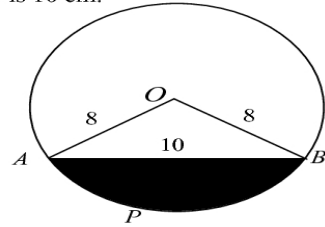


ARCS and SECTORS of circles; practice questions

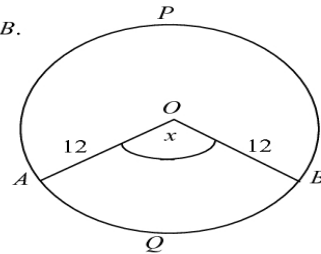
1. The circle has a radius of 8 cm. The length of the chord AB is 10 cm.

- a) Use $S_{\text{H}}^{\text{O}}C^{\text{A}}_{\text{H}}T^{\text{O}}_{\text{A}}$ to find angle AOB .
- b) Calculate the area of triangle AOB .
- c) Calculate the area of sector $OAPB$.
- d) Calculate the area of the shaded segment APB .

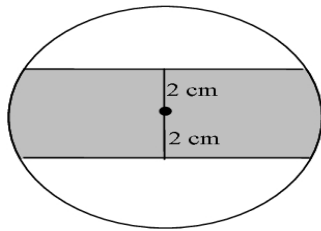


2. The circle has radius 12 cm. The arc AQB has length 25 cm.

- i) Calculate the size of the angle x . Give your answer in radians.
- ii) Calculate the area of the sector $OAPB$.



- 3.



Two parallel lines are drawn 2 cm from the centre of a circle of radius 4 cm.

Calculate the area shaded.

{Hint: find the areas of the 2 equal segments!}