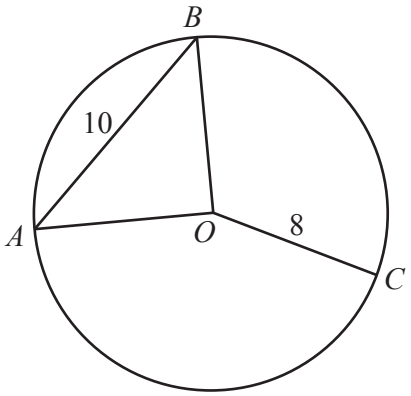
**2** In this question, all lengths are in centimetres and all angles are in radians.




The diagram shows a circle, centre $O$, radius 8. The points $A$, $B$ and $C$ lie on the circumference of the circle. The chord $AB$ has length 10.

**(a)** Show that angle $BOA$ is 1.35 correct to 2 decimal places. [2]

**(b)** Given that the minor arc $BC$ has a length of 18, find angle $BOC$. [2]

**(c)** Find the area of the minor sector $AOC$. [3]

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