

In the diagram, arc AB is part of a circle with centre O and radius 8 cm. Arc BC is part of a circle with centre A and radius 12 cm, where AOC is a straight line.

(a)	Find angle BAO in radians.	[2]

(b)	Find the area of the shaded region.	[4]
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(-)	Find the perimeter of the shaded region.	[3]
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