



The diagram shows a motif formed by the major arc AB of a circle with radius r and centre O , and the minor arc AOB of a circle, also with radius r but with centre C . The point C lies on the circle with centre O .

- (a) Given that angle $ACB = k\pi$ radians, state the value of the fraction k . [1]

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- (b) State the perimeter of the shaded motif in terms of π and r . [1]

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