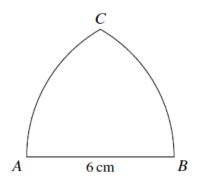
Circular Measure - 2021 AS Nov

1. Nov/2021/Paper_9709/11/No.6

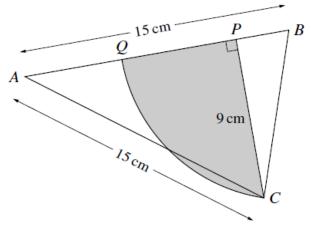


The diagram shows a metal plate ABC in which the sides are the straight line AB and the arcs AC and BC. The line AB has length 6 cm. The arc AC is part of a circle with centre B and radius 6 cm, and the arc BC is part of a circle with centre A and radius 6 cm.

(a)	Find the perimeter of the plate, giving your answer in terms of π . [3]
	<u> </u>

<u>c</u> ?
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2. Nov/2021/Paper_9709/12/No.7

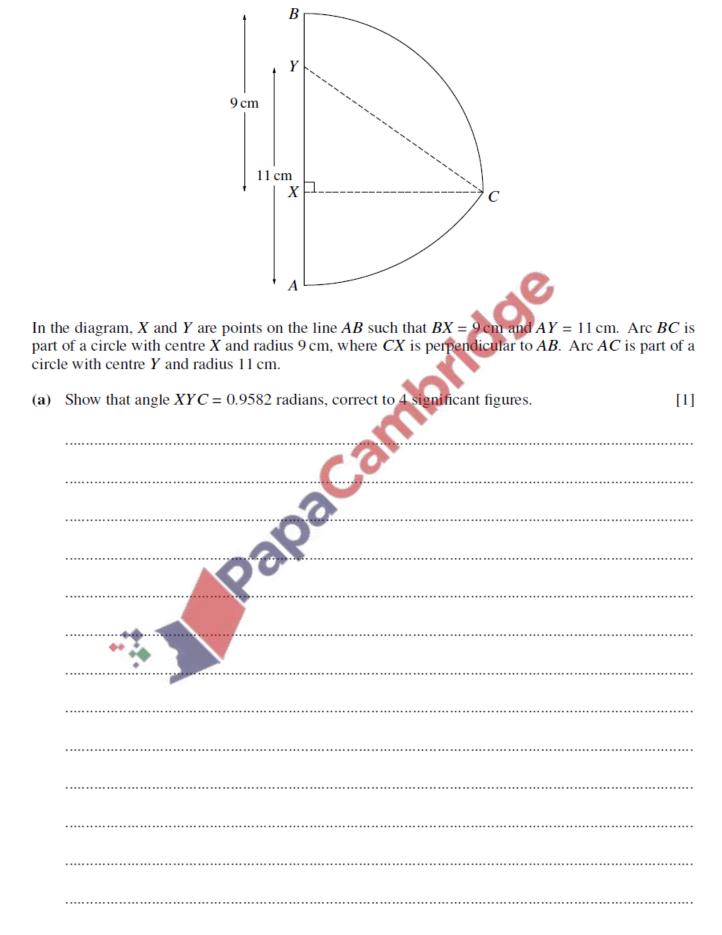


In the diagram the lengths of *AB* and *AC* are both 15 cm. The point *P* is the foot of the perpendicular from *C* to *AB*. The length CP = 9 cm. An arc of a circle with centre *B* passes through *C* and meets *AB* at *Q*.

(a)	Show that angle $ABC = 1.25$ radians, correct to 3 significant figures.	[2]
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3. Nov/2021/Paper_9709/13/No.5



(b)	Find the perimeter of <i>ABC</i> .	[6]
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