

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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(b)	Calculate the area of the shaded region which is bounded by the arc CQ and the lines CP and PQ .