

The diagram shows a rectangle ABCD in which AB = 5 units and BC = 3 units. Point P lies on DC and AP is an arc of a circle with centre B. Point Q lies on DC and AQ is an arc of a circle with centre D.

(ii) Calculate the areas of the sectors BAP and DAQ.	(i)	Show that angle $ABP = 0.6435$ radians, correct to 4 decimal places.	[1]
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	(ii)	Calculate the areas of the sectors BAP and DAQ .	[3]

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(iii)) Calculate the area of the shaded region.	[3]
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