Cambridge International AS & A Level

Mathematics

9709

Paper 1 Pure Mathematics 1

Topic 5-Trigonometry

Question No (7)

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Question No (7)

In the triangle ABC, AB = 12 cm, angle $BAC = 60^{\circ}$ and angle $ACB = 45^{\circ}$. Find the exact length of BC.

Solution

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	In a triangle ABC	
	AB=12 cm , BAC = 60	1A2B=45
		(15)
	sine dan	
	c b	60
	8/P) (8) C C	12 cm B
	ind smp sint	100
		· Salt
	By using The sine law	
-	BC = 12	
	8m60 8m45	
	Be = 12 × 5m 60	
	$Be = \frac{12}{5m 45} \times 5m 60$ $= \frac{12}{1} \times \frac{53}{2}$	
	1/2 2 JZ	
**CONTRACTOR OF THE STATE OF TH	= 60 ~ 13	
	$= \frac{6}{\sqrt{2}} \times \sqrt{3}$ $= 6 \sqrt{2} \times \sqrt{3}$	
Management and	= 6 /2 x/3	
Administra	BC = 6 J6	
