LEARNERS ONLINE TUTOR (LOT)

ONLINE TEST SERIES 2020

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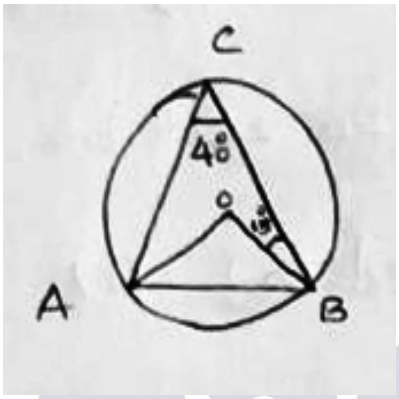
Subject:	MATHEMATICS	***Chapter:***	**CIRCLES**				
Class:	X	***Batch:***	LOT	**LOT 2020 (M-2)**		***Date:***	05/05/2020
No. of Questions:		***Type:***	Descriptive	***Mark:***	**20**	***Time:***	45 mts

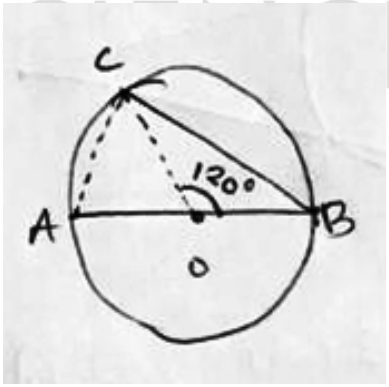
1. In the figure $\angle c = 40°, \angle OBC = 15°$



a) Find ∠AOB? (1)

b) Find all angles at ΔABC? I1)

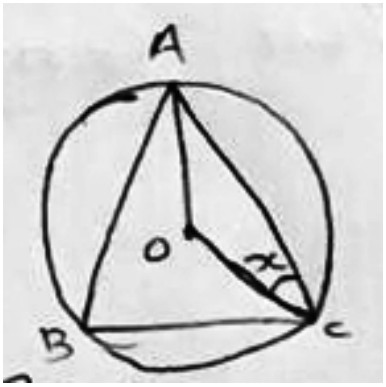
2. In the figure O is the centre of the circle and AB is the diameter. If ∠BOC = 120°. Find



a) $\angle OCA$? (1)

b) $\angle OAC$? (1)

3. A, B, C are points in the circle with centre O. If $\angle OCA = x$ then

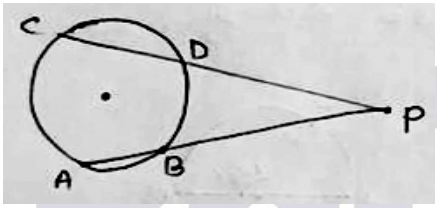


a) Find $\angle OAC$? (1)

b) Prove that $\angle OCA + \angle ABC = 90°$ (2)

4. Draw a circle with radius 3 cm construct a triangle with vertices on the circle and having angles $50°, 60°, 70°$ (4)

5. In the figure PA = 9 cm, PB = 4 cm & PC is 9 cm more than PD.



a) If $\mathrm{PD} = x$, find the length of PC? (1)

b) Find the length of PD? (3)

6. Draw a rectangle of length 6 cm and breadth 4 cm construct a rectangle having same area and one side 7 cm? (5)

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