ONLINE MATHS CLASS - X - 16 (27 / 07 /2021)

2. CIRCLES – CLASS - 4 - WORKSHEET

Important point

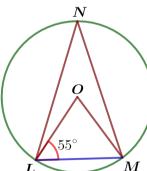
If we joining the ends of a chord other than a diameter to any point on the larger part of the circle, we get an angle which is half the size of the angle, we get by joining them to the centre of the circle.

- 1. In the figure O is the centre of the circle and AB is a chord on it
 - If $\angle AOB = 100^{\circ}$, what is the measure of $\angle APB$?
- 2. In the figure O is the centre of the circle and DE is a chord on it
 - \angle DFE = 30°, DE = 3 cm
- a) What is the measure of \angle DOE ?
- b) What is the measure of \angle ODE ?
- c) What is the perimeter of the circle ?

3. In the figure O is the centre of the circle and LM is a chord on it .

- $\angle OLM = 55^{\circ}$
- a) What is the measure of ∠ OML ?
- b) What is the measure of \angle LOM ?

c) What is the measure of \angle LNM ?



р

0

 100°

 $\boldsymbol{\Omega}$

D

F

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4. In the figure O is the centre of the circle and PQ is a chord on it

OP = PQ

a) What is the measure of $\angle POQ$?

b) What is the measure of \angle PRQ ?

5. In the figure O is the centre of the circle and XY is a chord on it .

 $\angle OXZ = 35^{\circ}$, $\angle OYZ = 25^{\circ}$

a) What is the measure of $\angle XZY$?

b) What is the measure of $\angle XOY$?

c) What is the measure of ∠OXY ?

(Hint : Join OZ)

Z

0

35

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