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ST. LAWRENCE HIGH SCHOOL



A Christian Jesuit minority Institution

Subject: Mathematics

Class: X

Date:13.04.2020

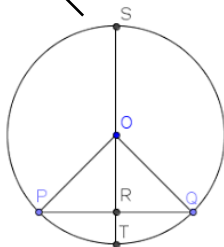
Answer key of Worksheet-6

Chapter: Theorems related to circles and angles in a circle

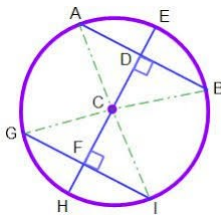
Topic : all the theorems related to circles and angles in a circle

1. Choose the correct alternative. 1x15=15

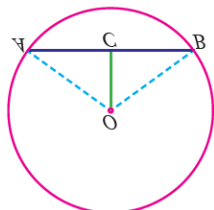
a) Length of the chord is 16 cm and distance of the chord from the centre is 6 cm. Then length of RT is **Ans ii) 4 cm**



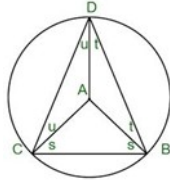
b) There are 2 parallel and equal chords of the length 24 cm and radius of the circle is 13 cm. The distance between the chords is **Ans iii) 10 cm**



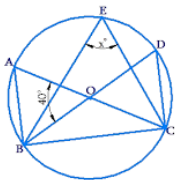
c) $AC = y + 4$ and $BC = 2y + 1$, value of y is **Ans i) 3**



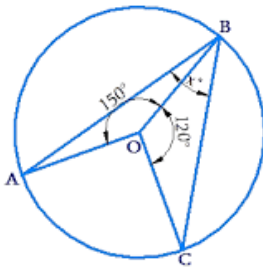
d) in the following circle $u=t=20^\circ$, the measure of s is Ans ii) 50°



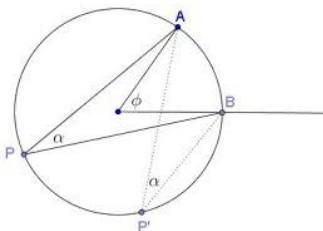
e) Measure of x in the following figure is Ans i) 70°



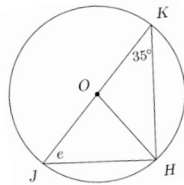
f) Measure of x in the following figure is Ans ii) 45°



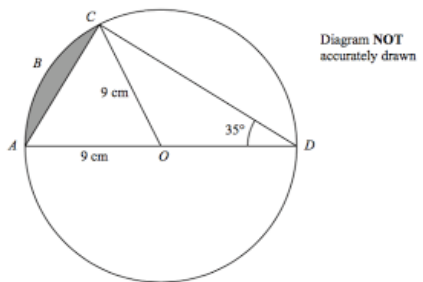
g) In the following figure, measure of the angle at the centre is 70° then angle APB is
ans i) 35°



h) Measure of angle e in the following figure is **Ans ii) 55°**

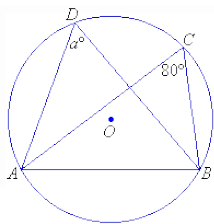


i) Measure of angle ACO is **Ans i) 55°**

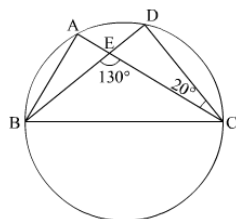


j) In the following figure, in triangle ADB if $AD=BD$ then measure of angle ABD is

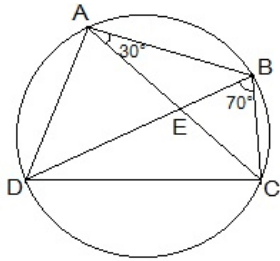
Ans ii) 50°



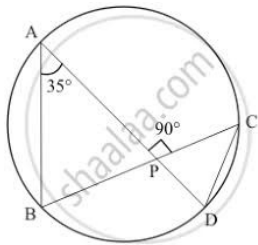
k) In the following figure, measure angle BAC is **Ans i) 110°**



l) Which one true for the following figure Ans iii) BD is any chord of the circle

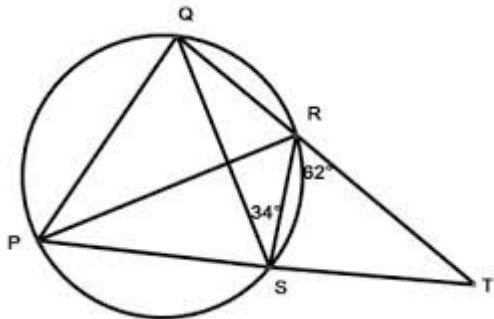


m) Measure of angle PDC is Ans i) 55°



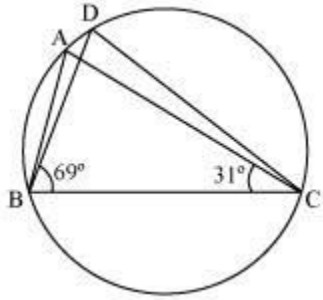
n) In the following figure , if PR is diameter, measure of angle PRS is

Ans i) 62°



o) In the following figure, angle ABC=69° , angle ACB= 31° then measure of angle BDC is

Ans ii) 80°



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