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ST. LAWRENCE HIGH SCHOOL



A Christian Jesuit minority Institution

Subject: Mathematics

Class: X

Date:13.04.2020

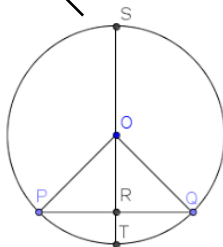
Worksheet-6

Chapter: Theorems related to circles and angles in a circle

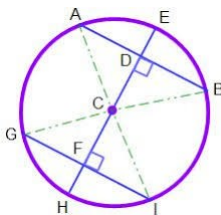
Topic : all the theorems related to circles and angles in a circle

1. Choose the correct alternative. 1x15=15

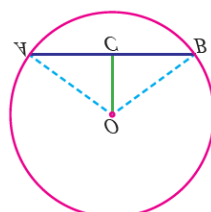
a) Length of the chord is 16 cm and distance of the chord from the centre is 6 cm. Then length of RT is i) 10 cm ii) 4 cm iii) 2 cm iv) none of these



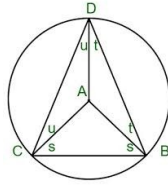
b) There are 2 parallel and equal chords of the length 24 cm and radius of the circle is 13 cm. The distance between the chords is i) 5 cm ii) 15 cm iii) 10 cm iv) none of these



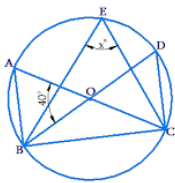
c) $AC = y + 4$ and $BC = 2y + 1$, value of y is i) 3 ii) 4 iii) 2 iv) none of these



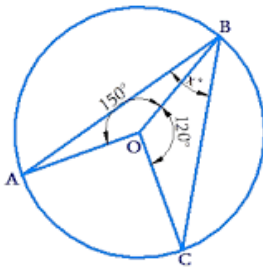
d) in the following circle $u=t=20^\circ$, the measure of s is i) 60° ii) 50° iii) 80° iv) none of these



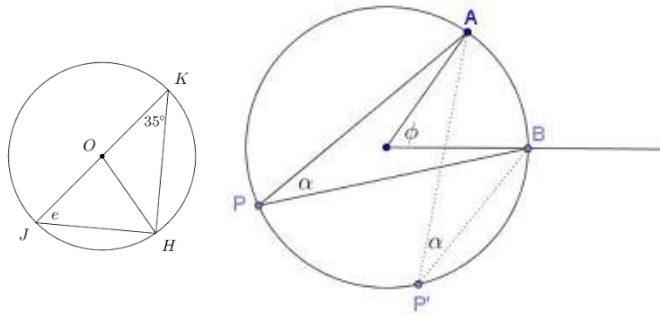
e) Measure of x in the following figure is i) 70° ii) 80° iii) 60° iv) none of these



f) Measure of x in the following figure is i) 90° ii) 45° iii) 60° iv) none of these

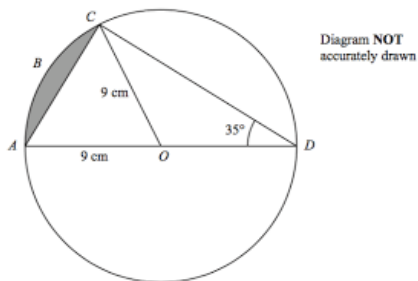


g) In the following figure, measure of the angle at the centre is 70° then angle APB is i) 35° ii) 70° iii) 80° iv) none of these

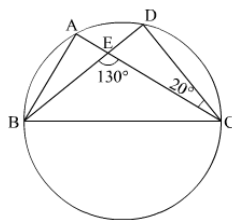
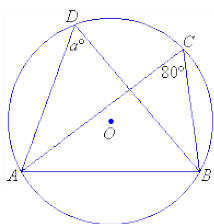


h) Measure of angle e in the following figure is i) 65° ii) 55° iii) 90° iv) none of these

i) Measure of angle ACO is i) 55° ii) 75° iii) 35° iv) none of these

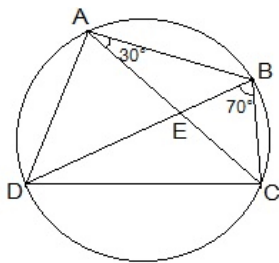


j) In the following figure, in triangle ADB if $AD=BD$ then measure of angle ABD is i) 60° ii) 50° iii) 90° iv) none of these

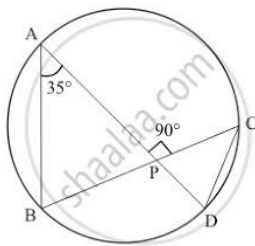


k) In the following figure, measure angle BAC is i) 110° ii) 100° iii) 90° iv) none of these

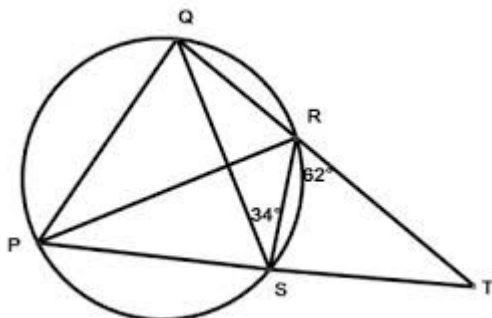
l) Which one true for the following figure i) AD is perpendicular on AB ii) BD is the radius of the circle iii) BD is any chord of the circle iv) none of these



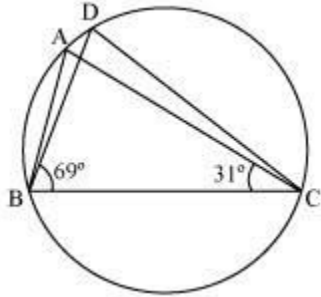
m) Measure of angle PDC is i) 55° ii) 45° iii) 65° iv) none of these



n) In the following figure , if PR is diameter, measure of angle PRS is i) 62° ii) 42° iii) 34° iv) none of these



o) In the following figure, angle $ABC=69^\circ$, angle $ACB= 31^\circ$ then measure of angle BDC is i) 90° ii) 80° iii) 60° iv) none of these



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