



ST. LAWRENCE HIGH SCHOOL



A Christian Jesuit minority Institution

Subject: Mathematics

Class: X

Date: 09.04.2020

Answer key of Worksheet-3

Chapter- angles related to angles in a circle

Topic - in a circle angles at the centre are double of angles on the circumference. If they are Placed on the same arc.

1. Choose the correct alternative. 1x15=15

a) In a circle with centre O there is a triangle ABC. A, B, C are lying on the circle. Angle BOC is 120° . Then angle BAC is

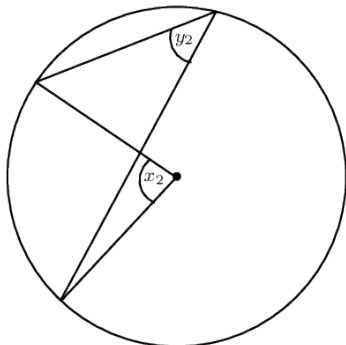
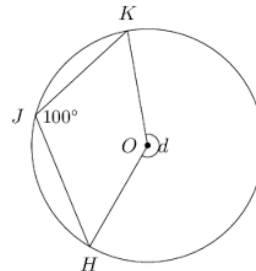
Ans ii) 60°

b) Measure of reflex $\angle KOH$ is

Ans i) 200°

c) If $X_2 = 80^\circ$, Value of Y_2 is

Ans ii) 40°

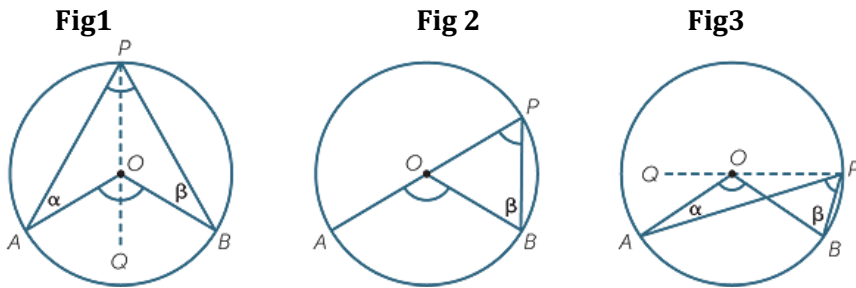


d) A, B, C are 3 points lying on the circle with centre O. where OB and OC are 2 radii. Now O, A ; O, B ; O, C ; A, B and A, C are joined. angle ABO = 35° and angle ACO = 45° then angle BAC is

Ans iii) 80°

e) A, B, C are 3 points lying on the circle with centre O. Where OB and OC are 2 radii. Now O, A ; O, B ; O, C ; A, B and A, C are joined. angle ABO = 35° and angle ACO = 45° then angle BOC is
 Ans ii) 160°

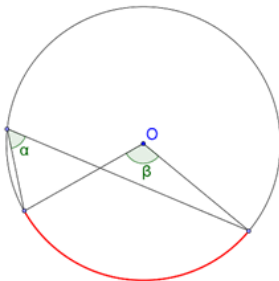
e) In reference to fig 1 $\alpha = 55^\circ$, $\beta = 25^\circ$. angle AOB is
 Ans i) 160°



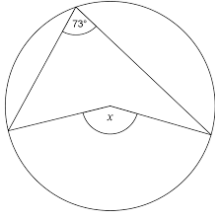
f) In reference to the above fig 2, $\beta = 30^\circ$, then angle AOB is
 Ans ii) 60°

g) In reference to the above fig 3 angle AOB = 120°, then angle APB is
 Ans iii) 60°

h) In the following figure If $\alpha = 50^\circ$ then the measure of β is
 Ans ii) 100°

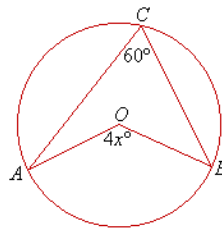
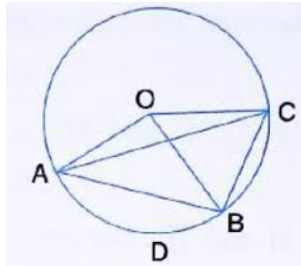


i) In the following figure the measure of x is
 Ans i) 146°



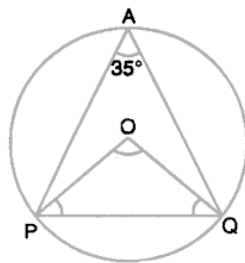
j) In the figure below $x = 60^\circ$, $y = 20^\circ$, then angle BOC is
 Ans iii) 160°

k) Value of x in the figure below is
 Ans i) 30°



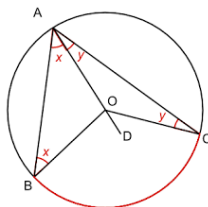
l) A, B, C are such 3 points on the circle with centre O that AOCB parallelogram is obtained, then angle AOC is
 Ans ii) 120°

m) In the figure
 Ans ii) $22\frac{1}{2}^\circ$



below If angle BOC = 45° , then angle BAC is

n) In
 Ans i)



the figure below, the measure of angle OPQ is
 55°

**o)If in the figure below $\theta = 44^\circ$, then measure of $\angle OCA$ is
Ans ii) 22°**

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