



ST. LAWRENCE HIGH SCHOOL



A Jesuit Christian minority Institution

Subject: Mathematics

Class- X

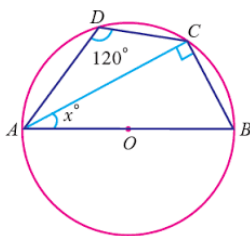
Date:08/06/2020

Answer key of Worksheet-31

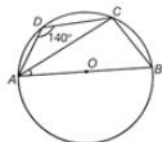
Chapter- Theorem on Cyclic quadrilateral

Topic- Properties of cyclic quadrilateral

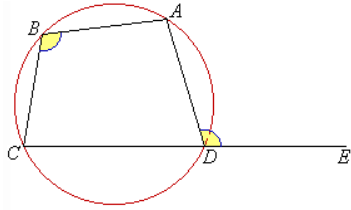
1. Choose the correct alternative. 1x15=15
- a) In a cyclic quadrilateral ABCD ,if $\angle A = 75^\circ$,then find $\angle C$
i) 15° ii) **105°** iii) 100° iv) none of these
- b) In a cyclic quadrilateral PQRS , $\angle P=95^\circ$ then find $\angle R$
i) 85° ii) 185° iii) 75° iv) none of these
- c) In the following figure find x .



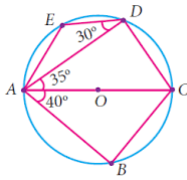
- i) 60° ii) **30°** iii) 50° iv) none of these
- d) In the following figure find $\angle CAB$
i) 50° ii) 60° iii) 40° iv) none of these



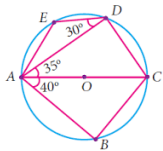
e) If $\angle ADE = 100^\circ$, find $\angle ABC$ i) 80° ii) 100° iii) 150° iv) none of these



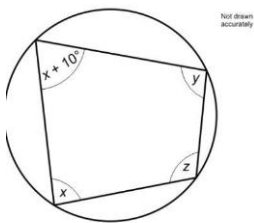
f) Find $\angle DAE$, i) 10° ii) 15° iii) 25° iv) none of these



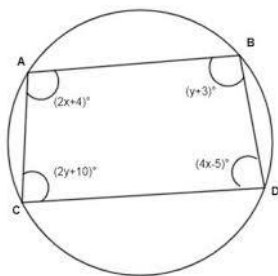
g) Find $\angle DCB$, i) 105° ii) 100° iii) 120° iv) none of these



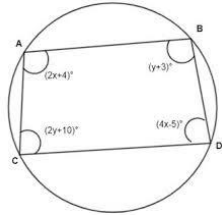
h) Find z , if $x:y=3:7$ i) 126° ii) 116° iii) 64° iv) none of these



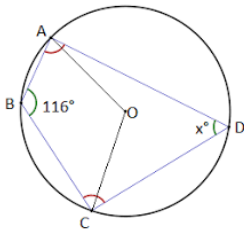
i) Find x , i) $30\frac{1}{5}$ ii) $30\frac{1}{6}$ iii) 30 iv) none of these



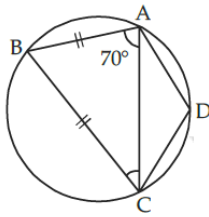
j) Find y , i) $55\frac{2}{3}$ ii) $55\frac{1}{4}$ iii) 55 iv) none of these



k) Find x , i) 46° ii) 80° iii) 64° iv) none of these

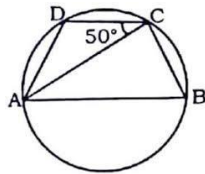


l) Find $\angle ADC$, i) 130° ii) 140° iii) 150° iv) none of these

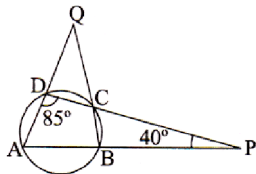


m) If AB is the diameter of the circle, then find $\angle DAB$ i) 40° ii) 60° iii) 70°

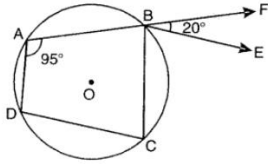
iv) none of these



n) Find $\angle BCP$, i) 65° ii) 75° iii) 55°



o) If BE is parallel to CD. Find $\angle ADC$, i) 105° ii) 100° iii) 85° iv) none of these



Aparajita Mondal