



ST. LAWRENCE HIGH SCHOOL



A Jesuit Christian minority Institution

Subject: Mathematics

Class- X

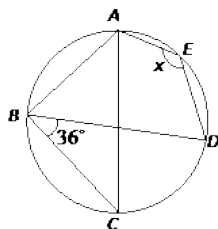
Date:10/06/2020

Answer key of Worksheet-33

Chapter- Theorem on Cyclic quadrilateral

Topic- Properties of cyclic quadrilateral

1. Choose the correct alternative. 1x15=15
a) Find x, i) 130° ii) 126° iii) 120° iv) none of these



- b) Find x, i) -15 ii) 15 iii) 20 iv) none of these

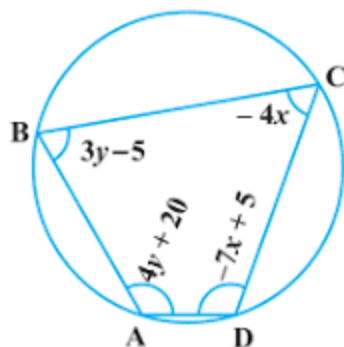
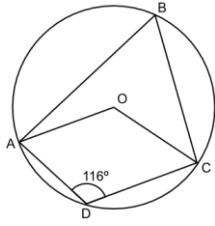


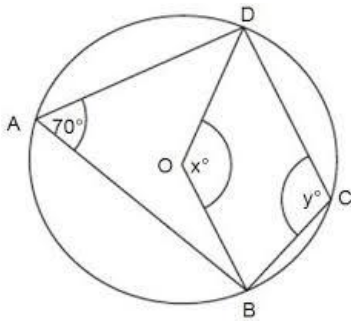
Fig. 3.7

- c) With reference to same figure 3.7, find y, i) 27 ii) 20 iii) 25 iv) none of these

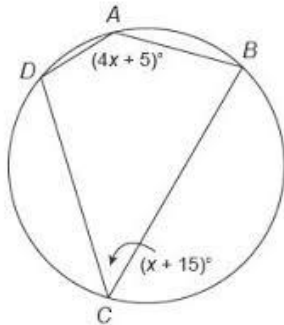
d) Find angle AOC, i) 128° ii) 125° iii) 120° iv) none of these



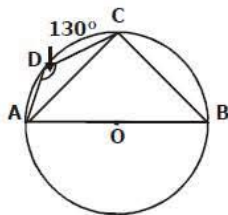
e) Find reflex DOB, i) 120° ii) 220° iii) 200° iv) none of these



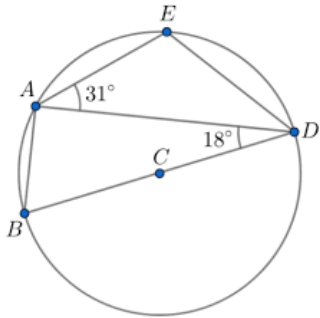
f) Find x, i) 32° ii) 23° iii) 36° iv) none of these



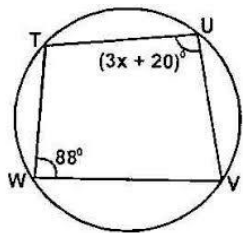
g) Find angle CAB, i) 80° ii) 60° iii) 40° iv) none of these



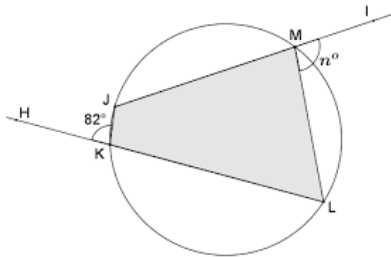
h) In the circle below C is the centre of the circle. Find angle ADE, i) 41° ii) 31° iii) 46° iv) none of these



i) Find x, i) 42 ii) 24 iii) 36 iv) none of these

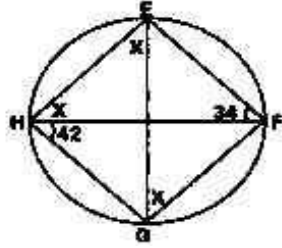


j) Find n, i) 98° ii) 89° iii) 91° iv) none of these

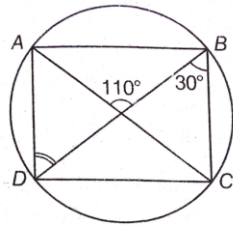


k) In the diagram above, EFGH is a cyclic quadrilateral in which EH//FG, EG and FH are chords. If $\angle FHG = 42^\circ$ and $\angle EFH = 34^\circ$, calculate $\angle HEG$.

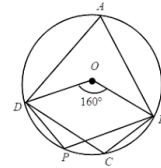
i) 52° ii) 50° iii) 62° iv) none of these



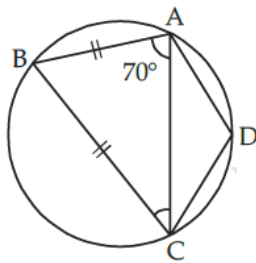
l) Find $\angle ADB$, i) 70° ii) 75° **iii) 80°** iv) none of these



m) Find $\angle DPB$, i) **100°** ii) 80° iii) 70° iv) none of these



n) Find $\angle ADC$, i) 120° **ii) 140°** iii) 100° iv) none of these



o) Find x , i) **85°** ii) 58° iii) 105° iv) 115°

