

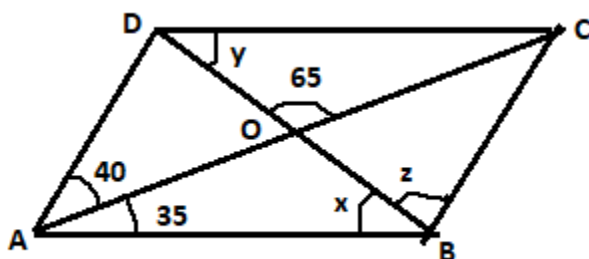
SATISH CHANDRA MEMORIAL SCHOOL

Chapter –3/5 Case Study and HOTS

VIII / Math / (Date: 02/08/2021)

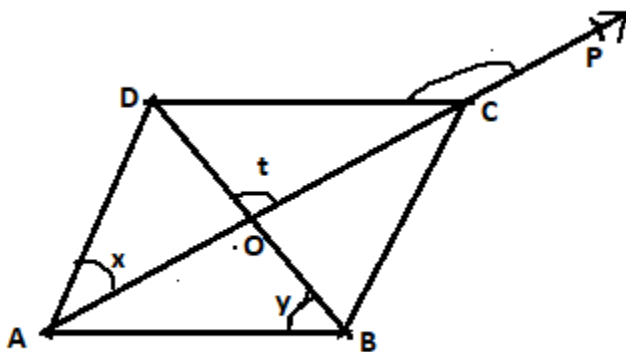
1. ABCD is a parallelogram. Where angle $CAD=40^\circ$, angle $BAC=35^\circ$ and angle $COD = 65^\circ$.

Find the value of x, y, z .



2. In the adjoining figure, ABCD is a rhombus in which the diagonal AC is produced to P. DCP angle equal to 150° , then

- i) Find x
- ii) Find y



- iii) Find z
- iv) Angle $AOD=?$

3. The frequency Distribution of weights (in Kg) of 35 persons is given in the table:

Weight (in kg)	Frequency
40-45	5
45-50	7
50-55	11
55-60	7
60-65	5

- a) What is the lower class limit of the class 50-55?
- b) What is the class size of the intervals?
- c) What is the upper class limit of class 55-60?
- d) Find the class marks of the class 45-50 and 55-60?
- e) What is the frequency of the class interval 40-45?

4. A survey of 200 families in a society shows the following results:

No. of cars Owned by a family	0	1	2	3or more
Number of families	20	105	60	15

Out of these families, one is chosen at a random. What is the probability that the chosen family has:

- a) No cars?
- b) 2 cars?
- c) More than one car?
- d) 3 or more cars?