

VIII - Mathematics Assignment No-06 - Introduction To Graph.

Q1 Plot the following points on graph sheet and join them. Do they form a straight line?

(a)  $(1, 5), (2, 7), (3, 9), (4, 11)$

(b)  $(1, 1), (2, 2), (3, 3), (4, 4)$

(c)  $(1, 2), (2, 3), (3, 4), (4, 5)$

Q2. Draw a line passing through  $(1, 6), (2, 7)$  and extend it both sides so that it meets Co-ordinate axes. Find the Co-ordinate on both axes.

Q3. Write the following

(a) Co-ordinate of Origin

(b) Co-ordinate of any point on X-axis

(c) Co-ordinate of any point on Y-axis

Q4. Plot the points  $(5, 3), (5, -4), (5, 0)$ . Do they lie in a straight line? If so what is peculiar about this line?

Cont Pg-2

- Q5. Plot the points  $(3, -4)$ ,  $(6, -8)$ ,  $(-6, 8)$  and  $(-9, 12)$  and mention any peculiarities about the join of these points.
- Q6. Show that the points  $(7, -1)$ ,  $(5, 1)$  and  $(2, 4)$  lie on a straight line. Do the points  $(-3, 9)$  and  $(-4, 1)$  also lie on this line?
- Q7. Find the co-ordinates of the middle points of the line joining  $(6, 8)$  and  $(-2, 4)$ .
- Q8. Plot the points  $(14, 3)$ ,  $(5, 15)$ ,  $(0, 3)$  on the graph sheet. Join these points. Name the figure so formed. Can you find its area if yes, find it.

ANS:

Q1 (a) yes (b) yes (c) NO	Q3 (a) $(0, 0)$ (b) $(x, 0)$ (c) $(0, y)$	Q5. The points lie on the line passing through the origin Q6. $(-3, 9)$ lies on line $(-4, 1)$ does not lie on line
Q2 on x-axis $(-5, 0)$ on y-axis $(0, 5)$	Q4. Yes, the straight line is parallel to y-axis	Q7. $(2, 6)$ Q8. 84 sq. units.