

# Activity 12

## OBJECTIVE

To find a hidden picture by plotting and joining the various points with given coordinates in a plane.

## MATERIAL REQUIRED

Cardboard, white paper, cutter, adhesive, graph paper/squared paper, geometry box, pencil.

## METHOD OF CONSTRUCTION

1. Take a cardboard of a convenient size and paste a white paper on it.
2. Take a graph paper and paste it on the white paper.
3. Draw two rectangular axes  $X'OX$  and  $Y'OY$  as shown in Fig. 1.
4. Plot the points A, B, C, ... with given coordinates  $(a, b)$ ,  $(c, d)$ ,  $(e, f)$ , ..., respectively as shown in Fig. 2.
5. Join the points in a given order say  $A \rightarrow B \rightarrow C \rightarrow D \rightarrow \dots \rightarrow A$  [see Fig. 3].

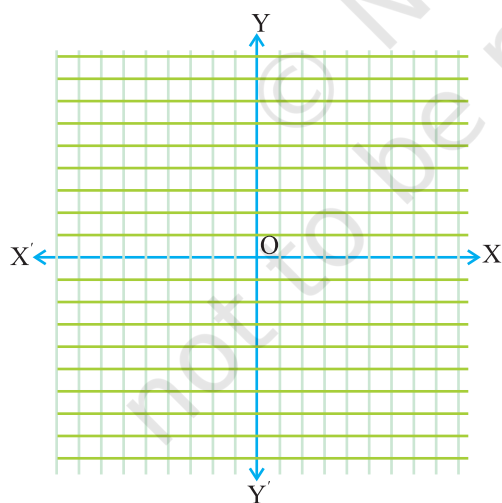


Fig. 1

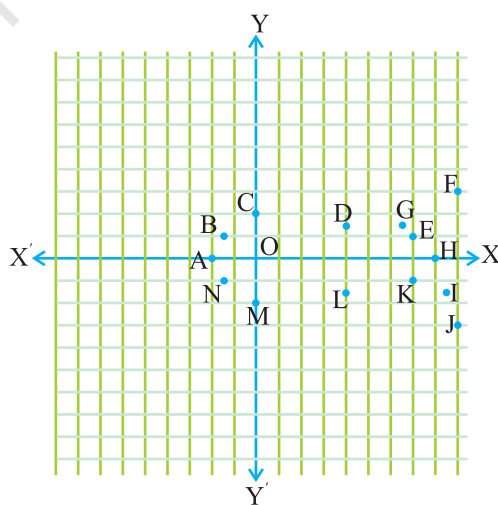


Fig. 2

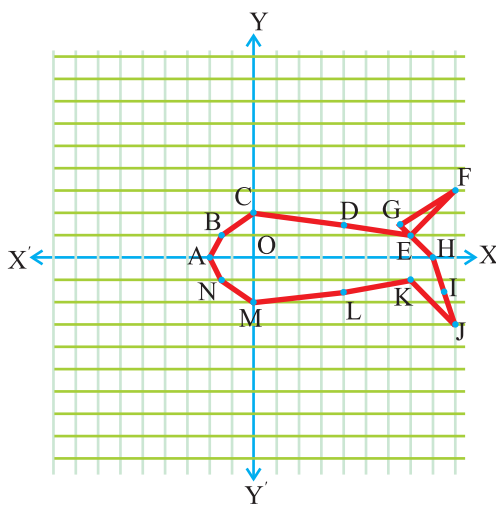


Fig. 3

### DEMONSTRATION

By joining the points as per given instructions, a ‘hidden’ picture of an ‘aeroplane’ is formed.

### OBSERVATION

In Fig. 3:

Coordinates of points A, B, C, D, .....

are ....., ....., ....., ....., ....., .....

Hidden picture is of \_\_\_\_\_.

### APPLICATION

This activity is useful in understanding the plotting of points in a cartesian plane which in turn may be useful in preparing the road maps, seating plan in the classroom, etc.