

ACTIVITY –COORDINATE GEOMETRY

1. What we have to do?

To create the mirror image of a given irregular geometrical figure with respect to the x-axis and the y-axis.

2. What is required?

Graph paper, pencil, ruler.

3. What do you need to know?

Plotting of points on the graph paper, idea of mirror image points about a given line.

4. How will you proceed?

- Write the co-ordinates of the labeled points (A, B, C, D...) in the given figure.
- Plot the mirror images of the points (A, B, C, D...) with respect to the x-axis and label the co-ordinates obtained. Join the co-ordinates obtained to get the mirror image of the given figure with respect to the x-axis.
- Repeat the process to get the mirror image of the given figure with respect to the y-axis.

5. What have you observed?

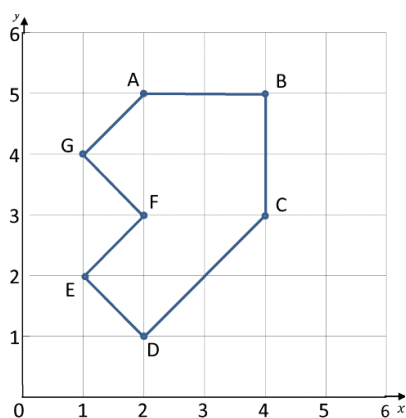
What happens to y-coordinate , when the mirror image of a figure is obtained with respect to the y-axis_____

What happens to x-coordinate , when the mirror image of a figure is obtained with respect to the y-axis_____

6. What have you learnt?

7. What would you be interested in doing?

Find the mirror image of a figure with respect to $x = y$.



Real life application :- Google maps