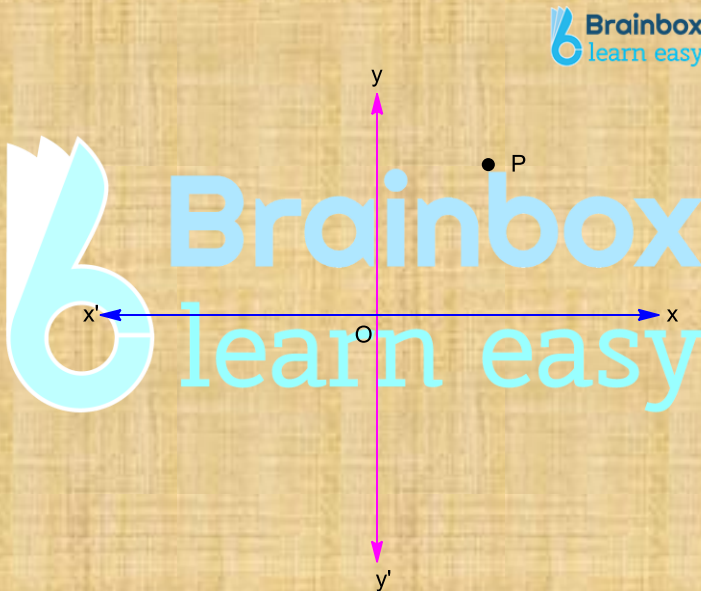


Introduction to Graphs

Ordered pair: (Locating a point)

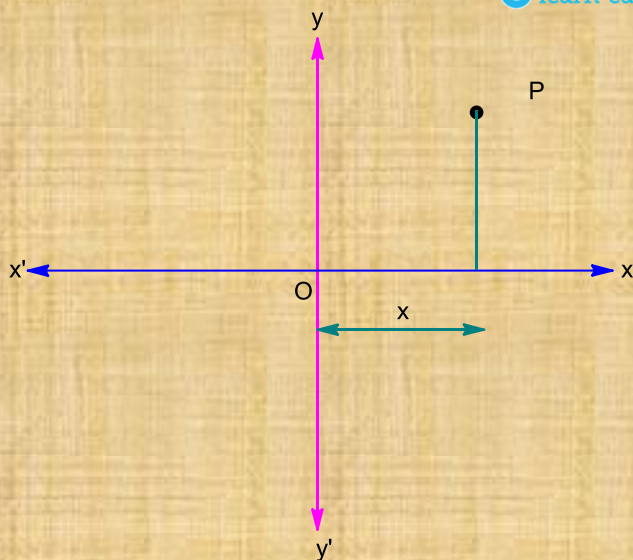
Step I:

Take co-ordinate axes XOX' and YOY' on the place. Let 'P' be any point in the XY – plane.

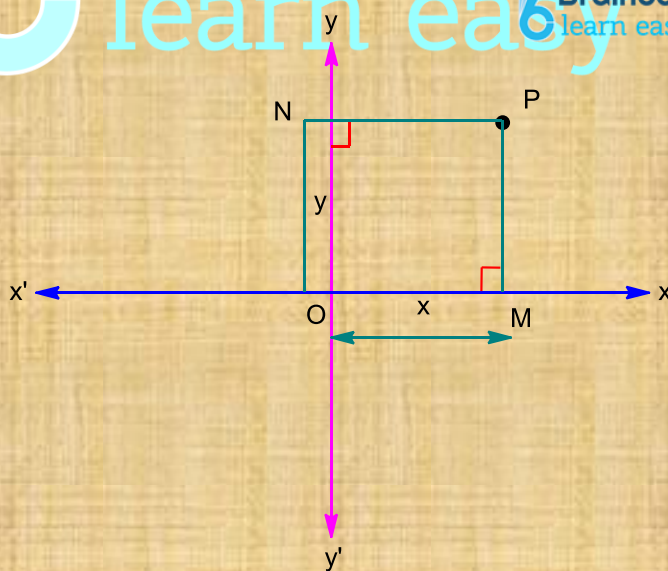


Step II:

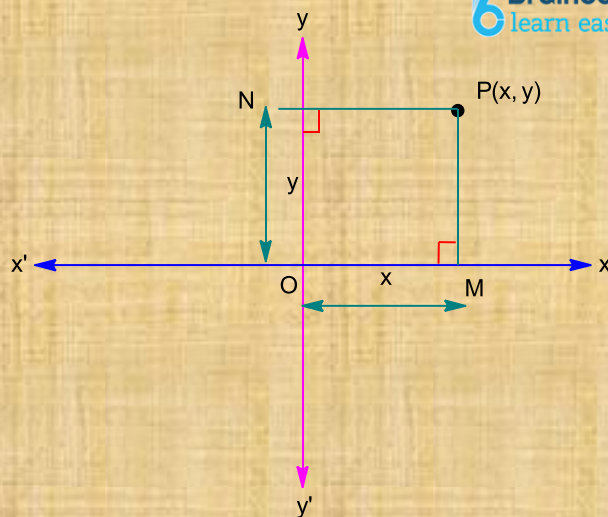
Draw a perpendicular line from 'P' to the X – axis which meets at M. Let the distance from origins to foot of perpendicular (M) on X – axis is "x' units and is called x – coordinate (or) abscissa of point 'P'.

**Step III:**

Draw one more perpendicular line from 'P' to the Y – axis which meets at 'N'. Let the distance from origin to foot of perpendicular (N) on Y-axis is 'y' units and is called Y – coordinate (or) ordinate of the point 'P'.

**Step IV:**

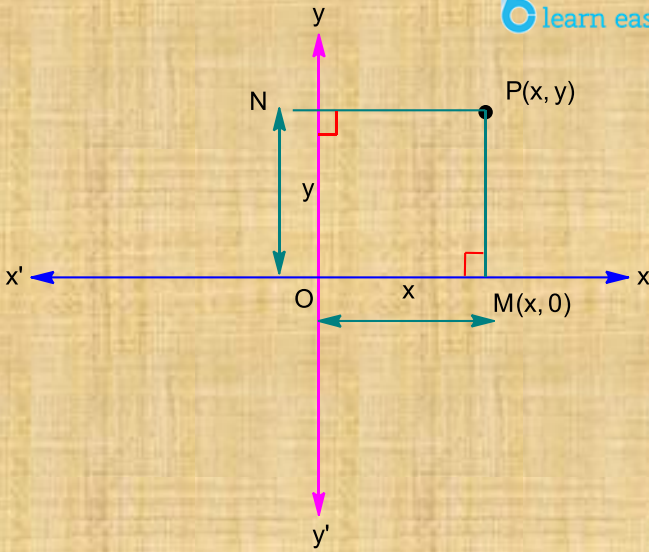
The 'x' and 'y' coordinates of 'P' separated by comma, taken together in small brackets is called ordered pair (x, y).



- 1) The coordinates of the origin 'O' are $(0, 0)$.



- 2) The coordinates of any point on X-axis are $(x, 0)$.



- 3) The coordinates of any point on the Y-axis are $(0, y)$.

