# MATHEMATICS

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| Board –ICSE | Class – IX | Topic – Co-ordinate of geometry |
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1. Write the answer of each of the following questions:
   a) What is the name of horizontal and the vertical lines drawn to determine the Position of any point in the Cartesian plane?
   b) What is the name of each part of the plane formed by these two lines?
   c) Write the name of the point where these two lines intersect.

2. Locate the points (5, 0), (0, 5), (2, 5), (5, 2), (−3, 5), (−3, −5), (5, −3) and (6, 1) in the Cartesian plane.
3. Draw the graph of $y = 3x - 4$.
4. Draw the graph for each equation and find the coordinates of the points where the graph intersect $3x + 2y = 6, 2x - 5y = 10$
5. Find the slope and y –intercept of line: $2x - 3y + 5 = 0$.
6. Find the equation of line whose slope is -3 and y-intercept =5
7. Find the inclination of line whose slope is is 0
8. Draw the line $3x + 4y = 12$ on a graph paper. From the graph paper .read the y-intercept of the line.
9. Draw the line $x + y = 5$ on a graph paper. From the graph paper, find the inclination and y-intercept of the line.
10. On the same graph paper, [lot the graph of $y = x - 2, y = 2x + 1\ and\ y = 4$ from $x = -4\ to\ 3$

**Answer**

1. a) X-axis and Y-axis b) quadrants c) origin
2. Drawing
3. Graph
4. $x - axis\ \ at\ (2,0) and\ y - axis\ (0,3)$.
5. $Slope = \frac{2}{3}\ and\ y = intercept = \frac{5}{3}$
6. $y = 8x - 6$
7. Inclination=0°
8. Y-intercept=3
9. Slope= 135° & Y-intercept=5
10. Plotting