MATHEMATICS

Board – ICSE   Class – 9   Topic – Co-ordinate Geometry

1. On a graph paper draw the coordinate axes X'OX and YOY', and plot each of the following points:
   (i)   A(4, 3)
   (ii)   B(2, 6)
   (iii)   C(-3, 5)
   (iv)   D(-5, 8)
   (v)   E(-2, -3)
   (vi)   F(-5, -3)
   (vii)   G(5, -4)
   (viii) H(3, -3)

2. (a) Draw the graph of the function $y = 3x$.
   (b) From the graph, find the value of y, when
       (i) $x = 3$
       (ii) $x = 5$
       (iii) $x = 6$

3. (a) Draw the graph of the function $P = 4x$.
   (b) From the graph, find the value of P. when
   (i) $x = 3$
   (ii) $x = 4$
   (iii) $x = 6$

4. (a) Draw the graph of the function $A = x^2$.
   (b) From the graph, find the value of A, when
   (i) $x = 2$
   (ii) $x = 3$
   (iii) $x = 4$

5. Tick (✔) the correct answer in each of the following:

    (i)   Which of the following quadrants does the point P(3, 6) lie?

    (ii)   Which of the following quadrants does the point (-7, -1) lie?

    (iii)   Which of the following quadrants does the point A(2, -3) lie?

    (iv)   Which of the following quadrants does the point Q(-4, 1) lie?

    (v)   The abscissa of a point is its distance from the

        (a) Origin   (b) x-axis

        (c) Y-axis   (d) none of these

    (vi)   The graph of $y = a$ is

        (a) The x-axis   (b) the y-axis

        (c) A line parallel to y-axis   (d) a line parallel to x axis

    (vii)   Equation representing y-axis is ……………

        (a) $x = 0$ (b) $y = 0$

        (c) $x = a$ (d) $y = a$

    Answer

4. i. (a)

  ii. (c)

  iii. (d)

  iv. (b)

  v. (c)

  vi. (d)

  vii. (a)