

Q.1- Who is the father of co-ordinate?

Q.2- Define co-ordinate geometry.

Q.3- On which axis do the given points lie?

(i) $(-7, 0)$ (ii) $(5, 0)$ (iii) $(0, 3)$ (iv) $(0, -8)$

Q.4- In ~~what~~ which quadrants do the given points lie?

(i) $(-3, -4)$ (ii) $(1, 2)$ (iii) $(-3, 7)$ (iv) $(2, -6)$

(v) (a, b) $a > 0, b < 0$ (vi) $(a, b), a < 0, b < 0$

(vii) $(a, b), a < 0, b > 0$

Q.5- Draw the line $X'OX$ and YOY' as axes on the plane of a graph paper and plot the points given below.

(i) A $(5, 3)$ (ii) B $(-7, 2)$ (iii) C $(2, -4)$

(iv) D $(0, -3)$ (v) E $(-7, 0)$

Q.6- Plot the points A $(2, 5)$, B $(-2, 2)$ and

C $(4, 2)$ on a graph paper. Join AB, BC and AC. Calculate the area of $\triangle ABC$.

Q.7- Find the perpendicular distance of the point A $(3, 4)$ from the y-axis.

Ch-3 Coordinate Geometry Assignment - 6 Part - 6

- Q.8 - Find the point whose ordinate is 3 and which lie on the y-axis.
- Q.9 - Find the area of $\triangle OAB$ having vertices $A(6,6)$, $O(0,0)$ and $B(6,0)$.
- Q.10 - If $A(-2,3)$ and $B(-3,5)$ are two given points then find the value of (abscissa of A) - (abscissa of B)
- Q.11 - If $O(0,0)$, $A(3,0)$, $B(3,4)$, $C(0,4)$ are four given points then the figure $OABC$ is a square, rectangle, trapezium or rhombus. Write correct one name.
- Q.12 - Which of the following points lies on the line $y = 2x + 3$?
- (a) $(2,8)$ (b) $(3,9)$ (c) $(4,12)$ (d) $(5,15)$
- Q.13 - If the point $(-3,4)$ lies on the line $y = 7x - 4k$ then find the value of k .
- Q.14 - Three vertices of a rectangle $ABCD$ are $A(3,1)$, $B(-3,1)$ and $C(-3,3)$. Plot these points on a graph paper and find the coordinates of the fourth vertex D . Also, find the area of rectangle $ABCD$.