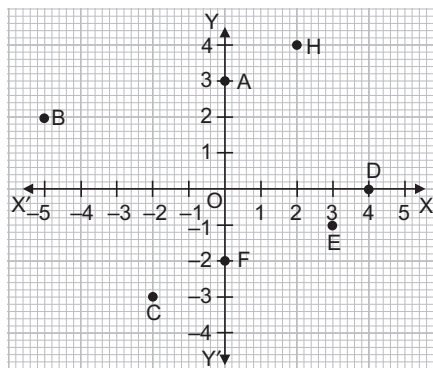


WORKSHEET 3

CHAPTER 3 – COORDINATE GEOMETRY

- On which axis, do the given points lie?
(i) (7, 0) (ii) (0, -3) (iii) (0, 6) (iv) (-5, 0)
- In which quadrant do the following points lie?
(i) (4, 2) (ii) (-3, 5) (iii) (-2, -5) (iv) (4, -2)
- Write whether the following statements are True or False?
(i) Point (3, 0) lies in the first quadrant.
(ii) Points (1, -1) and (-1, 1) lie in the same quadrant.
(iii) The coordinates of a point whose ordinate is $-\frac{1}{2}$ and abscissa is 1 are $(\frac{-1}{2}, 1)$.
(iv) A point lies on y -axis at a distance of 2 units from the x -axis. Its coordinates are (2, 0).
(v) (-1, 7) is a point in the II quadrant.
- Plot the point P(-6, 2), and from it draw PM and PN as perpendiculars to x -axis and y -axis respectively. Write the coordinates of the points M and N.
- From the given graph, write the following:
(i) Coordinates of B, C and E.
(ii) The point identified by the coordinates (0, -2).
(iii) The abscissa of the point H.
(iv) The ordinate of the point D.



- Plot the following points and write the name of the figure obtained by joining them in order: P(-3, 2), Q(-7, -3), R(6, -3), S(2, 2)
- Plot the following points and check whether they are collinear or not:
(i) (1, 3), (-1, -1), (-2, -3)
(ii) (1, 1), (2, -3), (-1, -2)
(iii) (0, 0), (2, 2), (5, 5)
- Which of the following points lie on y -axis?
A(1, 1), B(1, 0), C(0, 1), D(0, 0), E(0, -1), F(-1, 0), G(0, 5), H(-7, 0), I(3, 3).

Name:

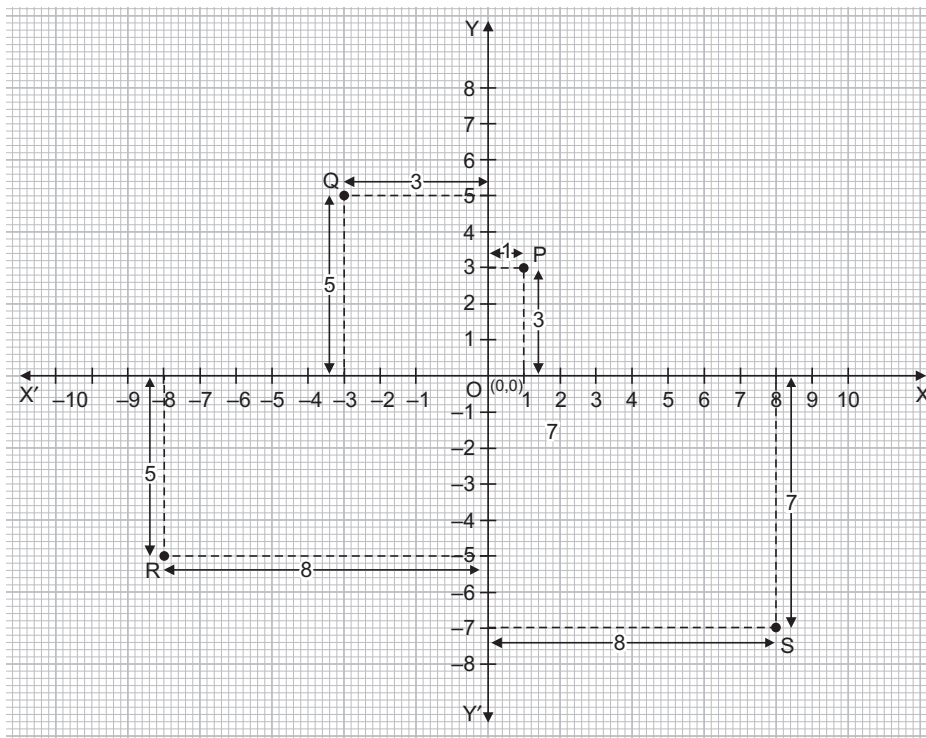
Teacher's signature:

Class: IX

Date:



9. A point lies on the x -axis at a distance of 9 units from the y -axis. What are its coordinates? What will be the coordinates if it lies on y -axis at a distance of -9 units from x -axis?
10. Write down (i) abscissa (ii) ordinates and (iii) coordinates of the points P, Q, R and S in the given figure.



ANSWERS

WORKSHEET 3

- (i) x -axis (ii) y -axis (iii) y -axis (iv) x -axis
- (i) I quadrant (ii) II quadrant (iii) III quadrant (iv) IV quadrant
- (i) False (ii) False (iii) False (iv) False (v) True
- M(-6, 0) and N(0, 2)
- (i) B(-5, 2), C(-2, -3), E(3, -1) (ii) F (iii) 1 (iv) 0
- Trapezium
- (i) Collinear (ii) Not Collinear (iii) Collinear
- C, D, E, G
- (9, 0), (0, -7)
- (i) 1, -3, -8, 8 (ii) 3, 5, -5, -7 (iii) P(1, 3), Q(-3, 5), R(-8, -5), S(8, -7)