INTRODUCTION TO GRAPHS

COORDINATES

EXERCISE

Q.1 Locate the following points on the graph paper

A(–3, 4), B(4, 0), C(–5, –3), D(–4, –5), E(0, 5), F(0, –4), G(0, 2), H(–3, 0).

Q.2 Mark the following points and join them. Give name and other information about the figure.

(i) (–3, 0), (–3, 1), (–3, 2), (–3, 5), (–3, –2) .

(ii) (5, 2), (3, 2), (0, 2), (–3, 2), (–1, 2)

(iii) (2, –2), (8, 4), (5, 7), (–1, 1)

(iv) (1, –2), (3, 6), (5, 10), (3, 2) .

(v) (3, 0), (6, 4), (–1, 3)

Q.3 Locate the following points on graph paper by taking suitable scale

(i) A(15, 25) (ii) B(15, –30)

(iii) C(–35, 25) (iv) D(–15, –20)

(v) E(–15, 35) (vi) F(25, 15)

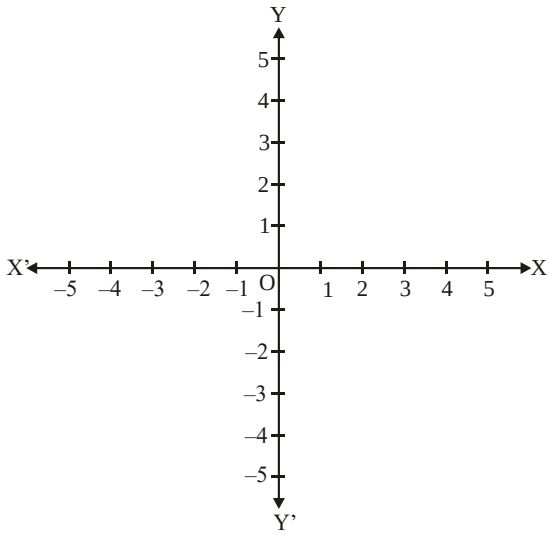
(vii) G(–5, 0) (viii) H(0, 10)

Q.4 Plot the following points on a graph paper :

(i) P(–5, 1) (ii) Q(2, –5)

(iii) R(0, 3) (iv) S(–2, –4)

(v) T(4, 1) (vi) U(0, –2)



Q.5 State the quadrants to which the following points belong :

(i) (7, –8) (ii) (–5, –9)

(iii) (4, 12) (iv) (–6, 1)

Q.6 Which of the following points lie on the x-axis ?

A(5, 0), B(0, –9), C(3, 1), D(–3, 0), E(–11, 0)

ANSWER KEY

2. (i) Line parallel to y-axis

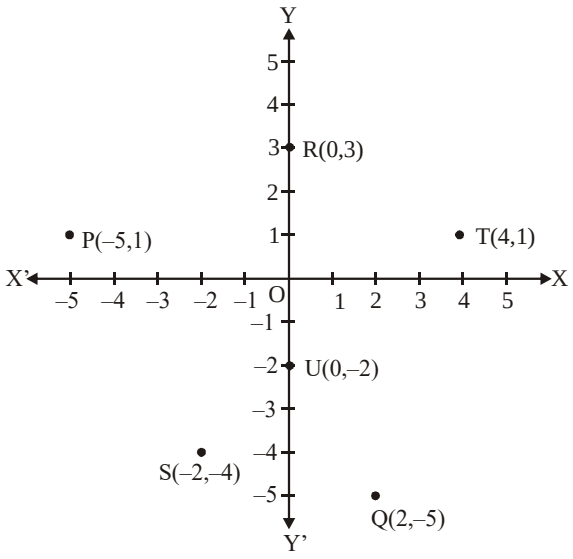
(ii) Line parallel to x-axis.

(iii) Rectangle.

(iv) Parallelogram

(v) right angle triangle.

4.



5. (i) (7, –8) is of the type (+, –); so, (7, –8) lies in the fourth quadrant.

(ii) (–5, –9) is of the type (–, –), so,(–5, –9) lies in the third quadrant.

(iii) (4, 12) is of the type (+, +), s, (4, 12) lies in the first quadrant.

(iv) (–6, 1) is of the type (–, +), so, (–6, 1) lies in the second quadrant.

6. A point lies on the x-axis if its y-coordinate (ordinate) is 0, i.e., points of the type (x, 0) lie on the x-axis. So, each of the points A(5, 0), D(–3, 0) and E(–11, 0) lies on the x-axis.