

Mathematics

(www.tiwariacademy.net)

(Chapter – 3) (Coordinate Geometry)(Exemplar Problems)

(Class – IX)

Exercise 3.3

Question 4:

Plot the following points and check whether they are collinear or not:

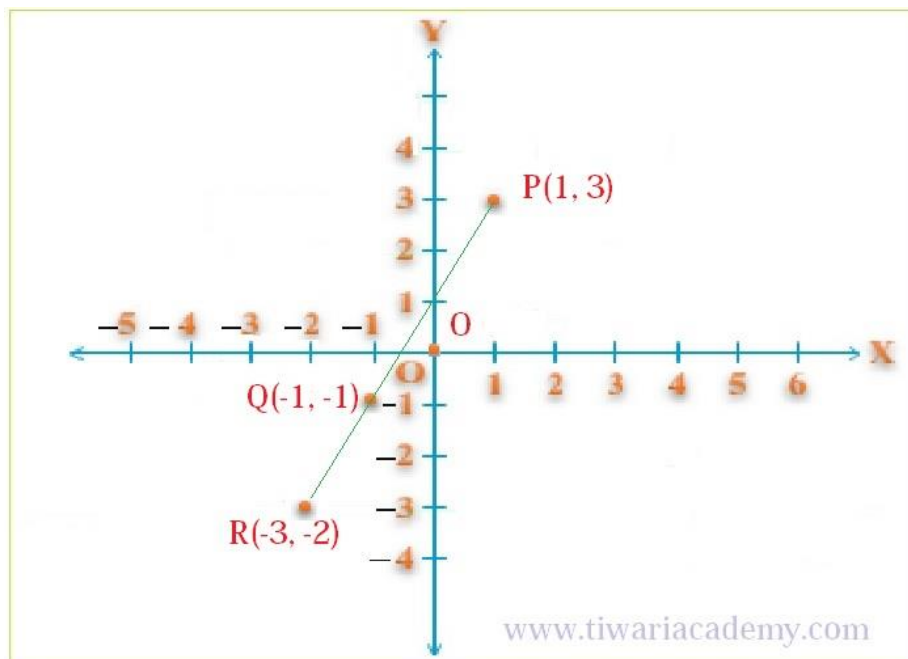
(i) $(1, 3)$, $(-1, -1)$, $(-2, -3)$

(ii) $(1, 1)$, $(2, -3)$, $(-1, -2)$

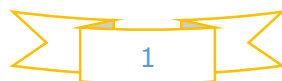
(iii) $(0, 0)$, $(2, 2)$, $(5, 5)$

Answer 4:

(i) Plotting the points $P(1,3)$, $Q(-1, -1)$ and $R(-2, -3)$ on the graph paper and join these points, we get a straight line. Hence, these points are collinear.



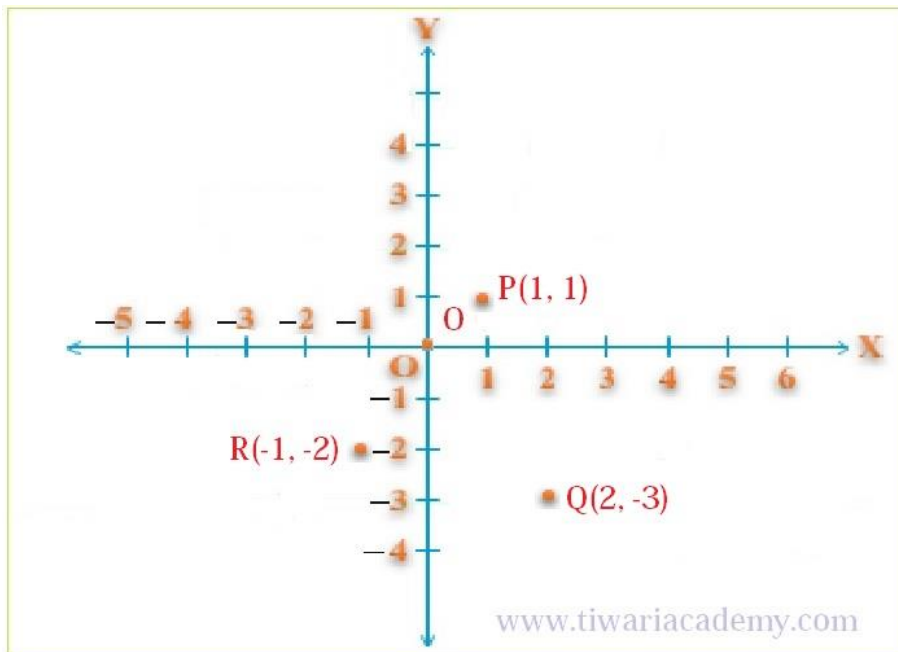
(ii) Plotting the points $P(1, 1)$, $Q(2, -3)$ and $R(-1, -2)$ on the graph paper and join these points, we get a three lines i.e., the given points do not lie on the same line. So, given points are not collinear.



Mathematics

(www.tiwariacademy.net)

(Chapter – 3) (Coordinate Geometry)(Exemplar Problems)
(Class – IX)



(iii) Plotting the points O(0, 0) , A(2, 2) and B (5,5) on the graph paper and join these points , we get a straight line. Hence, given points are collinear.

