

CBSE Class –VIII Mathematics
NCERT Solutions
CHAPTER - 15
Introduction to Graphs (Ex. 15.2)

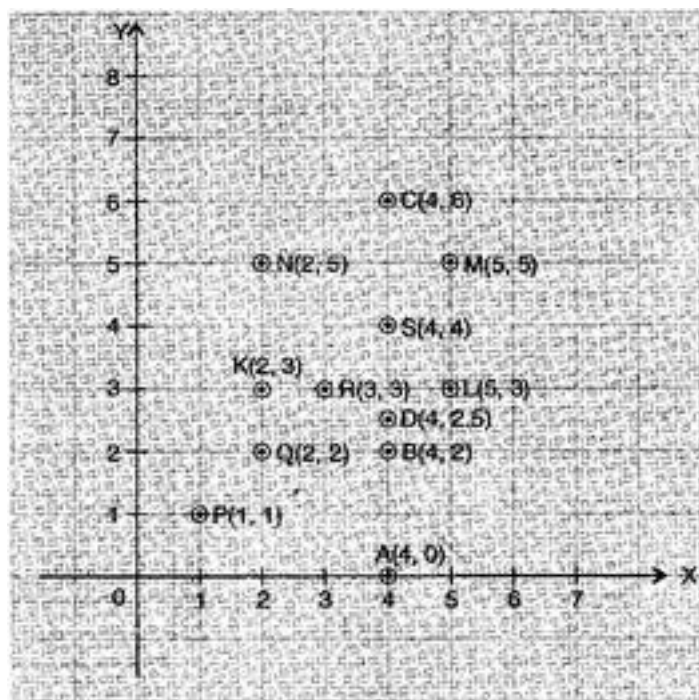
1. Plot the following points on a graph sheet. Verify if they lie on a line

(a) A(4,0), B(4,2), C(4,6), D(4, 2.5)

(b) P(1,1), Q(2,2), R(3,3), S(4,4)

(c) K(2, 3), L(5, 3), M(5, 5), N(2, 5)

Ans.



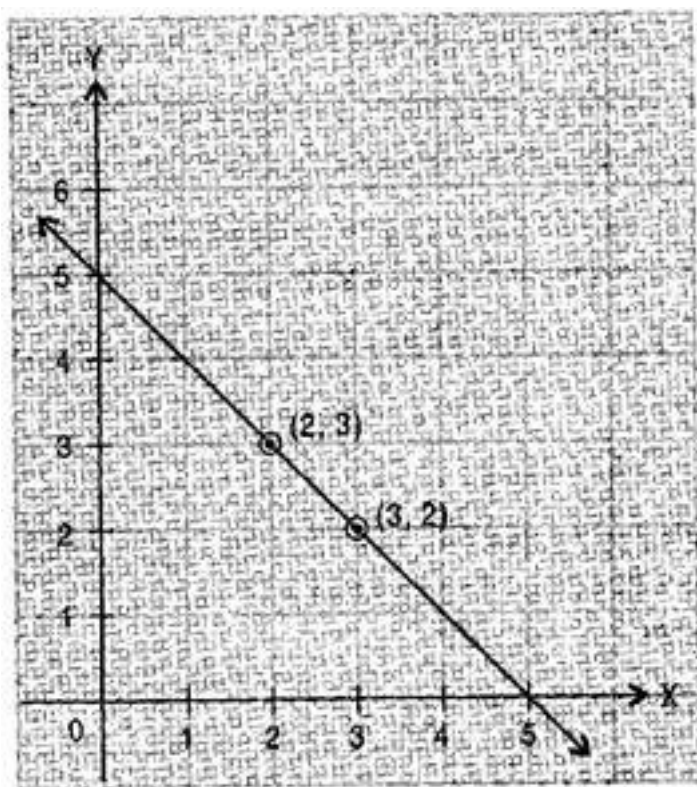
(a) All points A, B, C and D lie on a vertical line.

(b) P, Q, R and S points also make a line. It verifies that these points lie on a line.

(c) These points do not lie in a straight line.

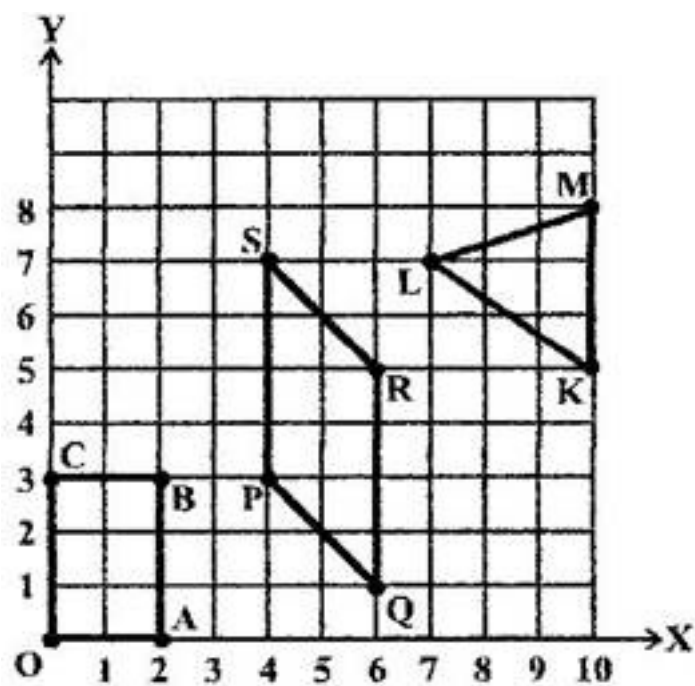
2. Draw the line passing through (2, 3) and (3, 2). Find the coordinates of the points at which this line meets the x-axis and y-axis.

Ans.



The coordinates of the points at which this line meets the x -axis at $(5, 0)$ and y -axis at $(0, 5)$.

3. Write the coordinates of the vertices of each of these adjoining figures.



Ans. Vertices of figure OABC

O (0, 0), A (2, 0), B (2, 3) and C (0, 3)

Vertices of figure PQRS

P (4, 3), Q (6, 1), R (6, 5) and S (4, 7)

Vertices of figure LMK

L (7, 7), M (10, 8) and K (10, 5)

4. State whether True or False. Correct that are false.

(i) A point whose x coordinate is zero and y-coordinate is non-zero will lie on the y-axis.

(ii) A point whose y coordinate is zero and x-coordinate is 5 will lie on y-axis.

(iii) The coordinates of the origin are (0, 0).

Ans. (i) True (ii) False, it will lie on x -axis. (iii) True