



NCERT solutions for class-8 maths Introduction to graphs Ex-15.2

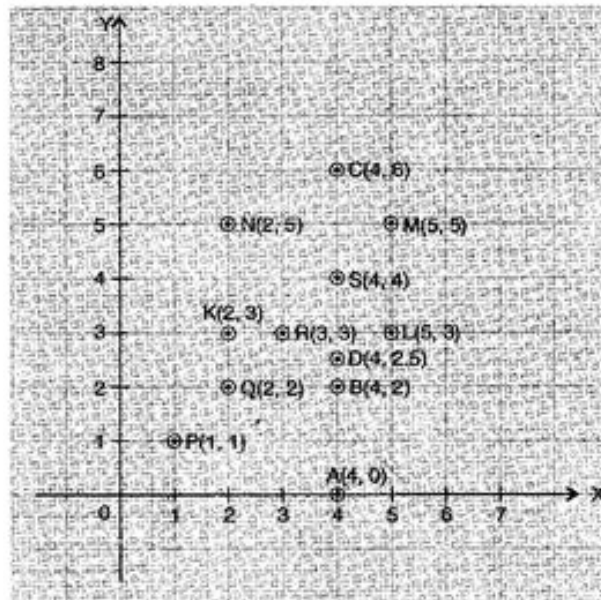
Q1. Plot the following points on a graph sheet.
Verify if they lie on a line

(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.



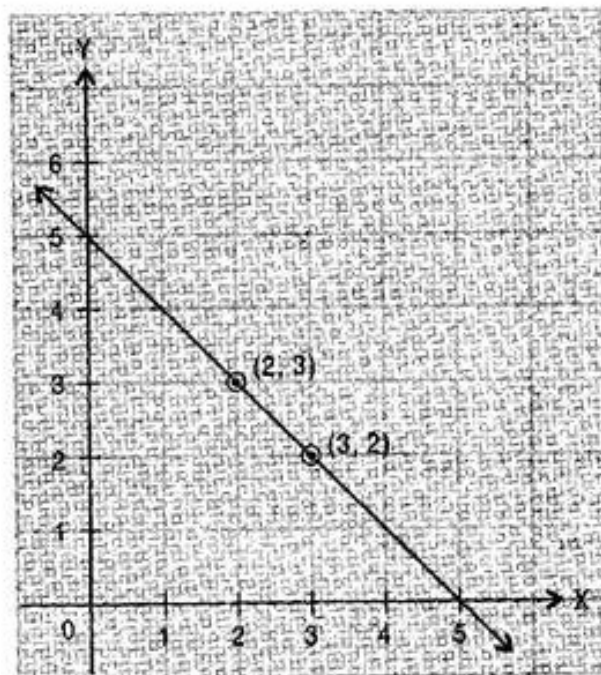
(a) All points A, B, C and D lie on a vertical line.

(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.

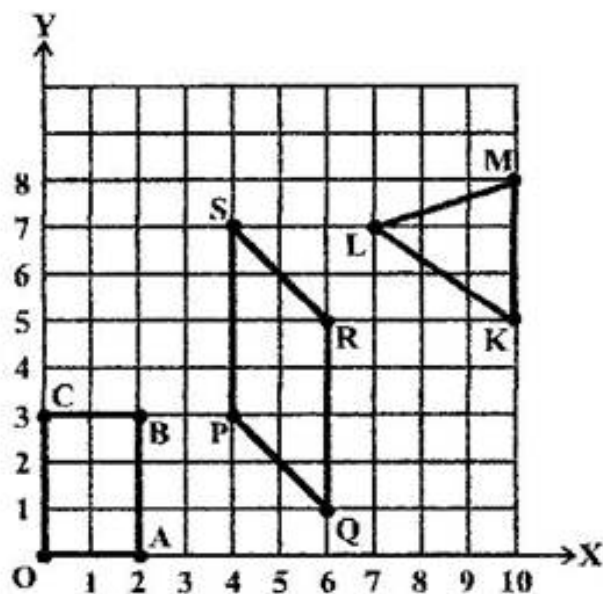
Q2. Draw the line passing through $(2, 3)$ and $(3, 2)$. Find the coordinates of the points at which this line meets the x -axis and y -axis.

Ans.



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

Q3. 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)

Q4. 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

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