

**FlexiPrep****NCERT Class 8 Mathematics Solutions: Chapter 15 – Introduction to Graph Exercise 15.2 Part 1 (For CBSE, ICSE, IAS, NET, NRA 2022)**

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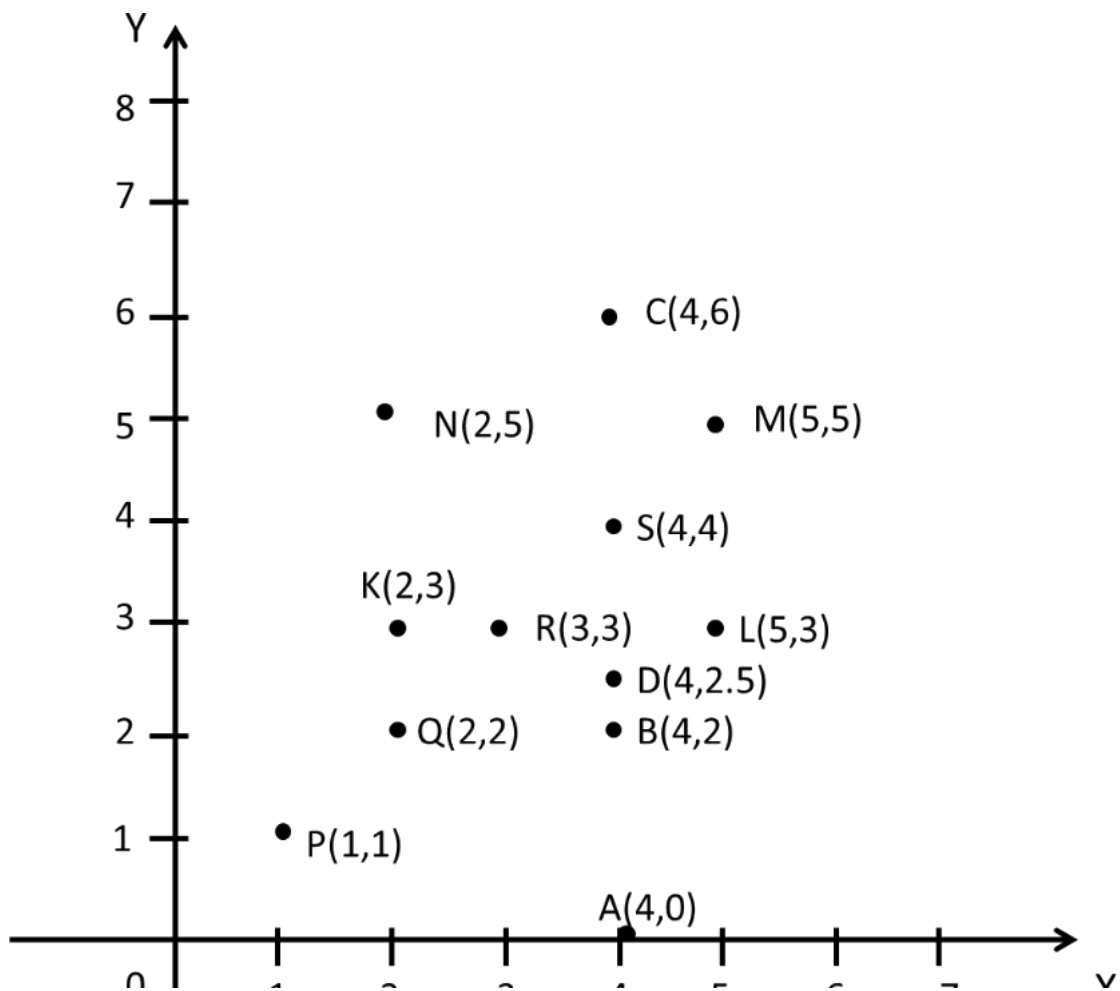
1. Plot the following points on a graph sheet. Verify if they lie on a line

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

Answer:





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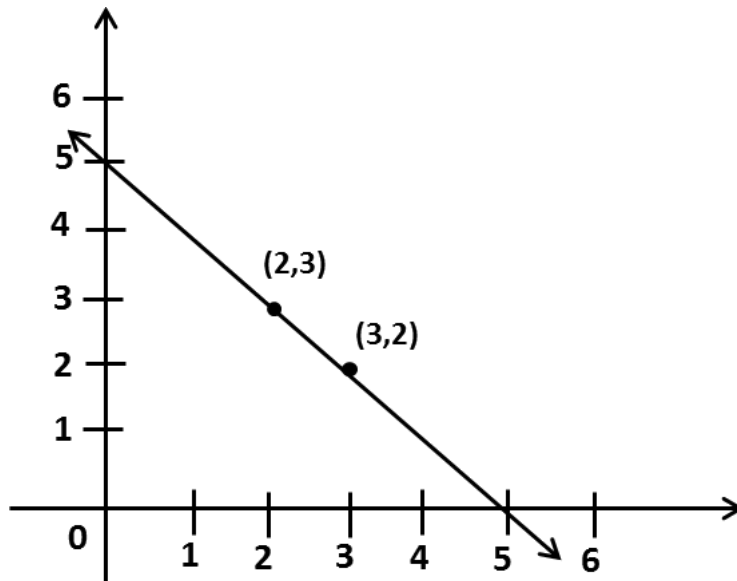
(a) Points  $A, B, C$  and  $D$  lie on a vertical line.

(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.

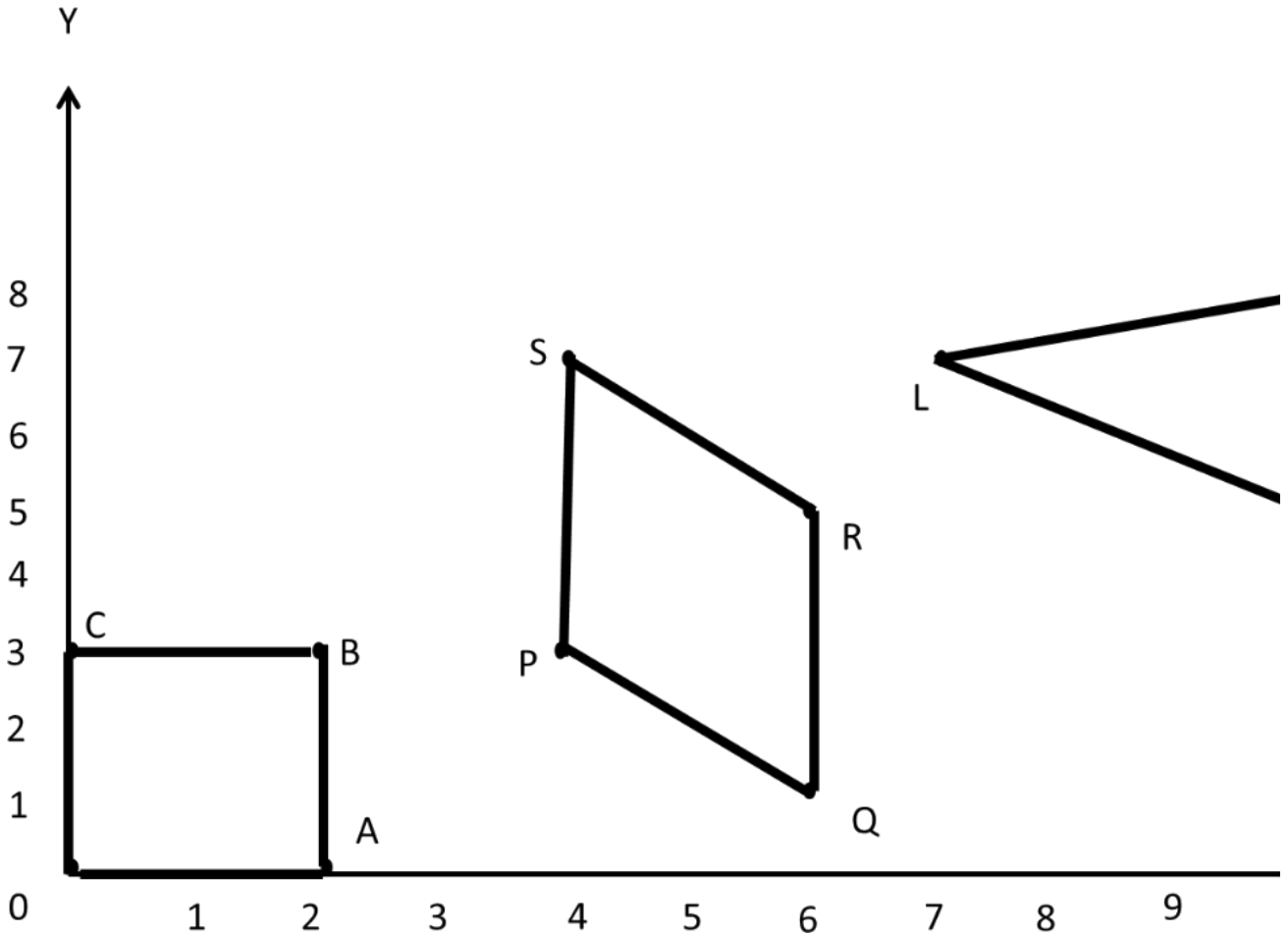
Answer:



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

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



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Answer:

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  $K(10,5)$

2. 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)

Answer:

- (i) True

(ii) False, it will lie on x-axis.

(iii) True

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