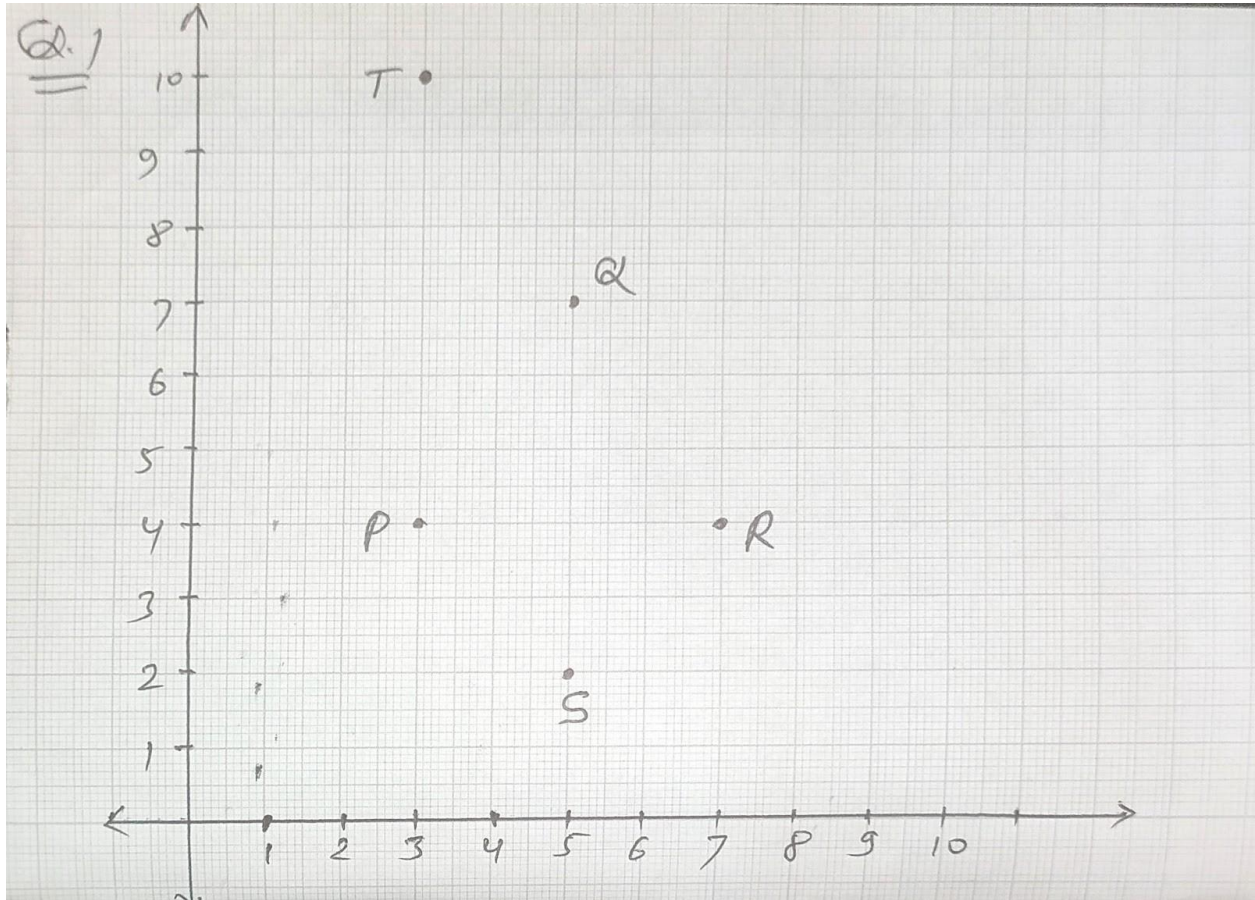


## CBT CLASS X MATHEMATICS-SEPTEMBER - ANSWER SHEET

Case Study 1:- In class X, 4 students are seated at the point P,Q,R and S as shown in the figure and the teacher standing at the point T.



1. What is the coordinate of point T.

*Mark only one oval.*

- (3,4)
- (3,0)
- (10,3)
- (3,10)

**Ans: (3,10)** The x coordinate of T is 3 and y is 10.

## CBT CLASS X MATHEMATICS-SEPTEMBER - ANSWER SHEET

2. The distance between the points P and R .

*Mark only one oval.*

4 units

- 4 units

5 units

3 units

**Ans: 4 units**

Use distance formula coordinate of P is (3,4) and R is (7,4) ,

$$AB = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

3 .The distance between the points T and R .

*Mark only one oval.*

$\sqrt{50}$

$\sqrt{60}$

$\sqrt{61}$

$\sqrt{52}$

**Ans:  $\sqrt{52}$**

Use

distance

formula

4. Determine if the point T,Q,R are collinear

*Mark only one oval.*

yes

no

can not be determine

**Ans: Yes**

**As they lie in the same straight line.**

5.The shape of quadrilateral PQRS is

*Mark only one oval.*

square

Rhombus

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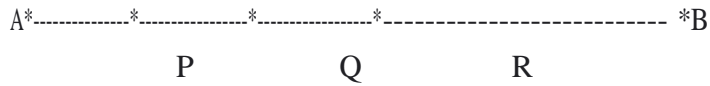
Kite

Parrallelogram

Ans: Kite as it follows the properties of kite.

# CBT CLASS X MATHEMATICS-SEPTEMBER - ANSWER SHEET

case study :- 2 .The line segment joining the points A(3,-4) and B(1,2) is divided four equal parts at the points P, Q, R respectively.



Q6. In what ratio point P divide AB .

Mark only one oval.

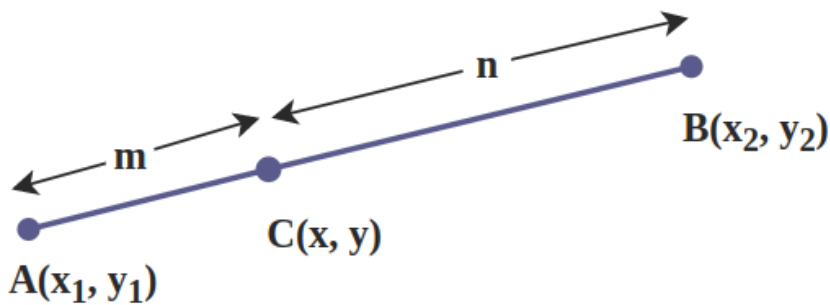
1 : 4

1 : 3

3 : 1

4 : 1

## Internal Section Formula



$$C(x, y) = \left\{ \frac{mx_2 + nx_1}{m+n}, \frac{my_2 + ny_1}{m+n} \right\}$$

Ans: (1:3)

7 . In what ratio point Q divide PR .

Mark only one oval.

1 : 3

1 : 2

1 : 1

1 : 4

Ans: (1:1)

The distance of PQ is equal to distance of RQ

8 . What is the coordinate of point P .

Mark only one oval.

## CBT CLASS X MATHEMATICS-SEPTEMBER - ANSWER SHEET

(5, -5)

(-5/2, 5/2)

(-5/2, -5/2)

(5/2, -5/2)

**Ans:** (5/2, -5/2)

## CBT CLASS X MATHEMATICS-SEPTEMBER - ANSWER SHEET

9 . What is the coordinate of point Q .

*Mark only one oval.*

(-1 , 2 )

( 2 , 1 )

(-2 , -1 )

( 2 , -1 )

**Ans: (2,-1)**

10. What is the coordinate of point R .

*Mark only one oval.*

( 3/2 , 1/2 )

( 3/2 , -1/2 )

(-3/2 , 1/2 )

(-3/2 , -1/2 )

**Ans: ( 3/2 , 1/2 )**