

# Mathematics

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(Chapter -8) (Quadrilaterals) (Exercise 8.2)  
(Class - 9)

## Question 1:

ABCD is a quadrilateral in which P, Q, R and S are mid-points of the sides AB, BC, CD and DA (see Figure). AC is a diagonal. Show that :

(i)  $SR \parallel AC$  and  $SR = \frac{1}{2} AC$

(iii) PQRS is a parallelogram.

### Answer 1:

(i) In  $\triangle ACD$ , S is mid-point of DA.  
R is mid-point of DC

Hence,  $SR \parallel AC$  and  $SR = \frac{1}{2} AC$  ... (1)

(ii) In  $\triangle ABC$ , P is mid-point of AB  
Q is mid-point of BC

Hence,  $PQ \parallel AC$  and  $PQ = \frac{1}{2} AC$  ... (2)

From (1) and (2), we have

$PQ \parallel SR$  ... (3)

and  $PQ = SR$  ... (4)

(iii) In PQRS,

$PQ \parallel SR$  and  $PQ = SR$

Hence, PQRS is a parallelogram.

(ii)  $PQ = SR$

[ $\because$  Given]

[ $\because$  Given]

[ $\because$  Mid Point Theorem]

[ $\because$  Given]

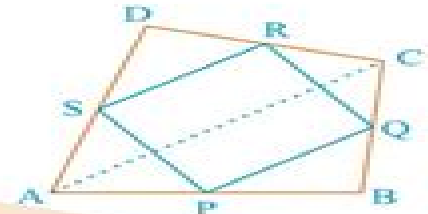
[ $\because$  Given]

[ $\because$  Mid Point Theorem]

[ $\because PQ \parallel AC$  and  $SR \parallel AC$ ]

[ $\because SR = \frac{1}{2} AC$  and  $PQ = \frac{1}{2} AC$ ]

[ $\because$  From (3) and (4)]



## Question 2:

ABCD is a rhombus and P, Q, R and S are the mid-points of the sides AB, BC, CD and DA respectively. Show that the quadrilateral PQRS is a rectangle.

### Answer 2:

In  $\triangle ABC$ ,

P is mid-point of AB

Q is mid-point of BC

Hence,  $PQ \parallel AC$  and  $PQ = \frac{1}{2} AC$  ... (1)

Similarly, in  $\triangle ACD$ ,

S is mid-point of AD

R is mid-point of CD

Hence,  $SR \parallel AC$  and  $SR = \frac{1}{2} AC$  ... (2)

From (1) and (2), we have

$PQ \parallel SR$

and  $PQ = SR$

Hence, PQRS is a parallelogram.

Similarly, in  $\triangle BCD$ ,

Q is mid-point of BC

R is mid-point of CD

Hence,  $QR \parallel BD$

$\Rightarrow QN \parallel LM$

and,  $LQ \parallel MN$

From (5) and (6), we have

LMNQ is a parallelogram.

Hence,  $\angle LMN = \angle LQN$

But,  $\angle LMN = 90^\circ$

Hence,  $\angle LQN = 90^\circ$

A parallelogram whose one angle is right angle, is a rectangle. Hence, PQRS is a rectangle.

[ $\because$  Given]

[ $\because$  Given]

[ $\because$  Mid Point Theorem]

[ $\because$  Given]

[ $\because$  Given]

[ $\because$  Mid Point Theorem]

[ $\because PQ \parallel AC$  and  $SR \parallel AC$ ]

[ $\because SR = \frac{1}{2} AC$  and  $PQ = \frac{1}{2} AC$ ]

[ $\because$  Given]

[ $\because$  Given]

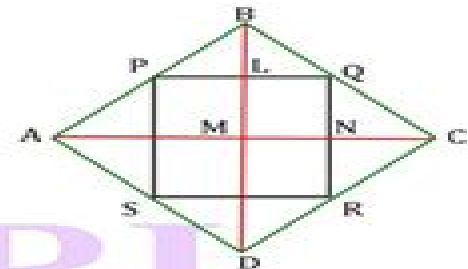
[ $\because$  Mid Point Theorem]

... (5)

[ $\because PQ \parallel AC$ ]

[ $\because$  Opposite angles of a parallelogram]

[ $\because$  Diagonals of a rhombus are perpendicular to each other]



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