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 || AC and SR $= \frac{1}{2}$ AC   **(ii)** PQ = SR

(iii) PQRS is a parallelogram.

✎ **Answer 1:**

(i) In ΔACD, S is mid-point of DA.   [∵ Given]
R is mid-point of DC   [∵ Given]
Hence, SR || AC and SR $= \frac{1}{2}$ AC   ... (1)   [∵ Mid Point Theorem]

(ii) In ΔACD, P is mid-point of AB   [∵ Given]
Q is mid-point of BC   [∵ Given]
Hence, PQ || AC and PQ $= \frac{1}{2}$ AC ... (2)   [∵ Mid Point Theorem]

From (1) and (2), we have
PQ || SR   ... (3)   [∵ PQ || AC and SR || AC]
and PQ = SR   ... (4)   [∵ SR $= \frac{1}{2}$ AC and PQ $= \frac{1}{2}$ AC]

(iii) In PQRS,
PQ || SR and PQ = SR   [∵ From (3) and (4)]
Hence, PQRS is a parallelogram.

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 ΔABC,
P is mid-point of AB   [∵ Given]
Q is mid-point of BC   [∵ Given]
Hence, PQ || AC and PQ $= \frac{1}{2}$ AC   ... (1)   [∵ Mid Point Theorem]

Similarly, in ΔACD,
S is mid-point of AD   [∵ Given]
R is mid-point of CD   [∵ Given]
Hence, SR || AC and SR $= \frac{1}{2}$ AC   ... (2)   [∵ Mid Point Theorem]

From (1) and (2), we have
PQ || SR   ... (3)   [∵ PQ || AC and SR || AC]
and PQ = SR   ... (4)   [∵ SR $= \frac{1}{2}$ AC and PQ $= \frac{1}{2}$ AC]

Hence, PQRS is a parallelogram.
Similarly, in ΔBCD,
Q is mid-point of BC   [∵ Given]
R is mid-point of CD   [∵ Given]
Hence, QR || BD   [∵ Mid Point Theorem]
⇒ QN || LM   ... (5)
and, LQ || MN   ... (6)   [∵ PQ || AC]

From (5) and (6), we have
LMNQ is a parallelogram.
Hence, ∠LMN = ∠LQN   [∵ Opposite angles of a parallelogram]
But, ∠LMN = 90°   [∵ Digonals of a rhombus are perpendicular to each other]
Hence, ∠LQN = 90°
A parallelogram whose one angle is right angle, is a rectangle. Hence, PQRS is a rectangle.

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