

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

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

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

Hence, PQRS is a parallelogram.

Similarly, in $\triangle BCD$,

Q is mid-point of BC

R is mid-point of CD

Hence, $QR \parallel BD$... (5)

$\Rightarrow QN \parallel LM$... (5)

and, $LQ \parallel MN$... (6)

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]

[\because $PQ \parallel AC$]

[\because Opposite angles of a parallelogram]

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



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Table of Contents Together With English Class 9 Solution

1. Understanding the eBook Together With English Class 9 Solution
 - The Rise of Digital Reading Together With English Class 9 Solution
 - Advantages of eBooks Over Traditional Books
2. Identifying Together With English Class 9 Solution
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Together With English Class 9 Solution
 - User-Friendly Interface
4. Exploring eBook Recommendations from Together With English Class 9 Solution
 - Personalized Recommendations
 - Together With English Class 9 Solution User Reviews and Ratings
 - Together With English Class 9 Solution and Bestseller Lists
5. Accessing Together With English Class 9 Solution Free and Paid eBooks
 - Together With English Class 9 Solution Public Domain eBooks
 - Together With English Class 9 Solution eBook Subscription Services
 - Together With English Class 9 Solution Budget-Friendly Options

6. Navigating Together With English Class 9 Solution eBook Formats
 - ePub, PDF, MOBI, and More
 - Together With English Class 9 Solution Compatibility with Devices
 - Together With English Class 9 Solution Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Together With English Class 9 Solution
 - Highlighting and Note-Taking Together With English Class 9 Solution
 - Interactive Elements Together With English Class 9 Solution
8. Staying Engaged with Together With English Class 9 Solution
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Together With English Class 9 Solution
9. Balancing eBooks and Physical Books Together With English Class 9 Solution
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Together With English Class 9 Solution
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Together With English Class 9 Solution
 - Setting Reading Goals Together With English Class 9 Solution
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Together With English Class 9 Solution
 - Fact-Checking eBook Content of Together With English Class 9 Solution
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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