

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 9th Class Maths Solution

1. Understanding the eBook 9th Class Maths Solution
 - The Rise of Digital Reading 9th Class Maths Solution
 - Advantages of eBooks Over Traditional Books
2. Identifying 9th Class Maths 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 9th Class Maths Solution
 - User-Friendly Interface
4. Exploring eBook Recommendations from 9th Class Maths Solution
 - Personalized Recommendations
 - 9th Class Maths Solution User Reviews and Ratings
 - 9th Class Maths Solution and Bestseller Lists

5. Accessing 9th Class Maths Solution Free and Paid eBooks
 - 9th Class Maths Solution Public Domain eBooks
 - 9th Class Maths Solution eBook Subscription Services
 - 9th Class Maths Solution Budget-Friendly Options
6. Navigating 9th Class Maths Solution eBook Formats
 - ePub, PDF, MOBI, and More
 - 9th Class Maths Solution Compatibility with Devices
 - 9th Class Maths Solution Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 9th Class Maths Solution
 - Highlighting and Note-Taking 9th Class Maths Solution
 - Interactive Elements 9th Class Maths Solution
8. Staying Engaged with 9th Class Maths Solution
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 9th Class Maths Solution
9. Balancing eBooks and Physical Books 9th Class Maths Solution
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 9th Class Maths Solution
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine 9th Class Maths Solution
 - Setting Reading Goals 9th Class Maths Solution
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 9th Class Maths Solution
 - Fact-Checking eBook Content of 9th Class Maths 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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web la petite robe noire intense was launched in 2016 the nose behind this fragrance is thierry wasser top notes are cotton candy blueberry raspberry cassis and bergamot middle notes are bulgarian rose jasmine and orange blossom base notes are vanilla patchouli sandalwood and white musk

[guerlain la petite robe noire couture edp for women](#) - Aug 08 2022

web delivery information there are no reviews yet guerlain la petite robe noire couture in la petite robe noire s perfume wardrobe i am the couture dress a perfumed creation by guerlain an eau de parfum couture that takes the form of a stunning long dress sewn with a raspberry note and top stitched with ultra refined woody notes

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web guerlain la petite robe noire intense in la petite robe noire s fragrance wardrobe i m the stylish dress a fragrance creation from guerlain an eau de parfum intense with a floral sillage fashioned with deliciously gourmand notes the glass of the legendary upside down heart bottle has been tinted a magnetic and incredibly chic

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la petite robe noire eau de parfum guerlain - Aug 20 2023

web inspired by parisian women's inimitable style la petite robe noire is a pure guerlain formula for success a fragrance distinguished by an ingredient inseparable from the house's perfume vocabulary and know how rose a bottle in timeless lines that revisits a treasure from its heritage

guerlain la petite robe noire limited edition edp for women - Jul 19 2023

web guerlain la petite robe noire limited edition what is more indispensable to a woman's wardrobe than a little black dress la petite robe noire translated from the french named after the one article of clothing that always is appropriate this is a fruity floral fragrance for women

la petite robe noire eau de parfum absolue guerlain for women - May 17 2023

web la petite robe noire eau de parfum absolue by guerlain is a floral fruity fragrance for women this is a new fragrance la petite robe noire eau de parfum absolue was launched in 2023 top notes are cherry almond and bergamot middle notes are smoke rose tea and iris base notes are leather patchouli and tonka bean

guerlain la petite robe noire intense edp for women - Dec 12 2022

web guerlain la petite robe noire intense edp for women sgd 79 00 add to cart la petite robe noire intense perfume by guerlain released by guerlain in 2016 la petite robe noire intense is a sweet feminine fragrance created by in-house perfumer thierry wasser

guerlain la petite robe noire collection review - Jun 06 2022

web mar 5 2014 the little black dress edit guerlain s la petite robe noire collection review if you were to ask me what i think is the most joyful and exuberant feminine fragrance on the market today i would answer with guerlain s la petite robe noire *la petite robe noire rose cherry guerlain for women* - Apr 04 2022

web jan 2 2023 summer fall day night perfume rating 4 21 out of 5 with 62 votes la petite robe noire rose cherry by guerlain is a floral fruity fragrance for women this is a new fragrance la petite robe noire rose cherry was launched in 2023 the nose behind this fragrance is delphine jelk

la petite robe noire légère guerlain for women fragrantica com - Nov 11 2022

web jan 9 2018 la petite robe noire légère was launched in 2018 the nose behind this fragrance is thierry wasser top notes are sour cherry almond rose water lime and lemon middle notes are black tea rose raspberry licorice peony and peach base notes are tonka bean vanilla violet patchouli and white musk

la petite robe noire eau de parfum intense guerlain - Mar 15 2023

web la petite robe noire eau de parfum intense an irresistible gourmand floral sillage la petite robe noire s iconic rose is beautifully enhanced by fruity notes of blueberry and raspberry a dash of bergamot along with white musk and a woody sandalwood patchouli accord create a fragrance with an exquisite and unforgettable sillage

guerlain la petite robe noire eau de parfum 30 ml nocibÉ - Jan 13 2023

web le flacon mythique coeur inversé est revisité avec audace et modernité dans sa transparence cristalline dégradée du noir au rose poudré se dévoile une petite robe noire iconique une eau de parfum aussi disponible en format voyage à glisser dans son sac et à emporter partout avec soi je suis absolument indispensable et

robe noire wikipédia - Mar 03 2022

web robe noire est le nom que donnaient aux xvi e et xvii e siècles les amérindiens de nouvelle france hurons algonquins iroquois aux missionnaires jésuites il fait allusion au vêtement ecclésiastique une longue soutane noire que ces missionnaires portaient traditionnellement

la petite robe noire guerlain for women fragrantica com - Apr 16 2023

web la petite robe noire by guerlain is a amber vanilla fragrance for women la petite robe noire was launched in 2009 the nose behind this fragrance is delphine jelk top notes are almond anise and lemon middle notes are macarons licorice and rose base notes are vanilla patchouli tea and musk