

60.  $9(2a - b)^2 - 4(2a - b) - 13$   
Let us consider  $2a - b = c$

So we get,  
 $= 9c^2 - 4c - 13$   
 We can further write it as  
 $= 9c^2 - 13c + 9c - 13$   
 By taking out the common terms  
 $= c(9c - 13) + 1(9c - 13)$   
 $= (c + 1)(9c - 13)$

Let us replace  $c$  by  $2a - b$   
 So we get,  
 $9(2a - b)^2 - 4(2a - b) - 13$   
 Then,  
 $= ((2a - b) + 1)(9(2a - b) - 13)$   
 $= (2a - b + 1)(18a - 9b - 13)$

61.  $7(x - 2y)^2 - 25(x - 2y) + 12$   
Let us consider  $x - 2y = z$

So we get,  
 $= 7z^2 - 25z + 12$   
 We can further write it as  
 $= 7z^2 - 21z - 4z + 12$   
 By taking out the common terms  
 $= 7z(z - 3) - 4(z - 3)$   
 $= (7z - 4)(z - 3)$

Let us replace  $z$  by  $x - 2y$   
 So we get,  
 $7(x - 2y)^2 - 25(x - 2y) + 12$   
 Then,  
 $= (7(x - 2y) - 4)((x - 2y) - 3)$   
 $= (7x - 14y - 4)(x - 2y - 3)$

62.  $10\left(3x + \frac{1}{x}\right)^2 - \left(3x + \frac{1}{x}\right) - 3$   
Consider,  
 $3x + \frac{1}{x} = a$

So we get,  
 $= 10a^2 - a - 3$   
 We can further write it as  
 $= 10a^2 - 6a + 5a - 3$   
 By taking out the common terms  
 $= 2a(5a - 3) + 1(5a - 3)$   
 $= (2a + 1)(5a - 3)$

# Rs Aggarwal Class Maths Solutions

**I.S. Chawla**



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### Table of Contents **Rs Aggarwal Class Maths Solutions**

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

5. Accessing Rs Aggarwal Class Maths Solutions Free and Paid eBooks
  - Rs Aggarwal Class Maths Solutions Public Domain eBooks
  - Rs Aggarwal Class Maths Solutions eBook Subscription Services
  - Rs Aggarwal Class Maths Solutions Budget-Friendly Options
6. Navigating Rs Aggarwal Class Maths Solutions eBook Formats
  - ePub, PDF, MOBI, and More
  - Rs Aggarwal Class Maths Solutions Compatibility with Devices
  - Rs Aggarwal Class Maths Solutions Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Rs Aggarwal Class Maths Solutions
  - Highlighting and Note-Taking Rs Aggarwal Class Maths Solutions
  - Interactive Elements Rs Aggarwal Class Maths Solutions
8. Staying Engaged with Rs Aggarwal Class Maths Solutions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Rs Aggarwal Class Maths Solutions
9. Balancing eBooks and Physical Books Rs Aggarwal Class Maths Solutions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Rs Aggarwal Class Maths Solutions
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Rs Aggarwal Class Maths Solutions
  - Setting Reading Goals Rs Aggarwal Class Maths Solutions
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Rs Aggarwal Class Maths Solutions
  - Fact-Checking eBook Content of Rs Aggarwal Class Maths Solutions
  - 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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