

Problems involving the use of the discriminant  $b^2 - 4ac$

7. Determine the range of values of  $p$  if the quadratic equation  $2x^2 - 1 = 5x + p$  has two different roots.

Ans:  $2x^2 - 1 = 5x + p$   
 $2x^2 - 5x - (p + 1) = 0$   
 $a = 2, b = -5, c = -(p + 1)$   
 $b^2 - 4ac = (-5)^2 - 4(2)[-(p + 1)]$   
 $= 25 + 8(p + 1)$   
 $= 25 + 8p + 8$

For two different roots,  $b^2 - 4ac > 0$

$$33 + 8p > 0$$

$$p > -\frac{33}{8}$$

8. Find the value of  $q$  if the quadratic equation  $2x^2 + 12x = 2q - 9$  has two equal roots.

Ans:  $2x^2 + 12x = 2q - 9$   
 $2x^2 + 12x + 9 - 2q = 0$   
 $a = 2, b = 12, c = 9 - 2q$   
 $b^2 - 4ac = (12)^2 - 4(2)(9 - 2q)$   
 $= 144 - 72 + 16q$   
 $= 72 + 16q$

For two equal roots,  $b^2 - 4ac = 0$

$$72 + 16q = 0$$

$$q = -\frac{9}{2}$$

9. If the quadratic equation  $4mx^2 - 3nx + m = 0$  has two equal roots, find the ratio  $n : m$ . Hence, solve the equation.

Ans:  $4mx^2 - 3nx + m = 0$   
 $b^2 - 4ac = (-3n)^2 - 4(4m)(m)$   
 $= 9n^2 - 16m^2$

For two equal roots,  $b^2 - 4ac = 0$

$$9n^2 - 16m^2 = 0$$

$$9n^2 = 16m^2$$

$$\left(\frac{n}{m}\right)^2 = \frac{16}{9}$$

$$\frac{n}{m} = \frac{4}{3}$$

$$n : m = 4 : 3$$

For  $\frac{n}{m} = \frac{4}{3}$ ,  $3n = 4m$

Substitute  $3n = 4m$  into the equation.

$$4mx^2 - 4mx + m = 0$$

$$m(4x^2 - 4x + 1) = 0$$

$$4x^2 - 4x + 1 = 0$$

$$(2x - 1)^2 = 0$$

$$2x - 1 = 0$$

$$x = \frac{1}{2}$$

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## **Table of Contents Add Maths Form 4 Chapter 1 Notes Mbfsfj**

1. Understanding the eBook Add Maths Form 4 Chapter 1 Notes Mbfsfj
  - The Rise of Digital Reading Add Maths Form 4 Chapter 1 Notes Mbfsfj
  - Advantages of eBooks Over Traditional Books
2. Identifying Add Maths Form 4 Chapter 1 Notes Mbfsfj
  - 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 Add Maths Form 4 Chapter 1 Notes Mbfsfj
  - User-Friendly Interface

4. Exploring eBook Recommendations from Add Maths Form 4 Chapter 1 Notes Mbfsfj
  - Personalized Recommendations
  - Add Maths Form 4 Chapter 1 Notes Mbfsfj User Reviews and Ratings
  - Add Maths Form 4 Chapter 1 Notes Mbfsfj and Bestseller Lists
5. Accessing Add Maths Form 4 Chapter 1 Notes Mbfsfj Free and Paid eBooks
  - Add Maths Form 4 Chapter 1 Notes Mbfsfj Public Domain eBooks
  - Add Maths Form 4 Chapter 1 Notes Mbfsfj eBook Subscription Services
  - Add Maths Form 4 Chapter 1 Notes Mbfsfj Budget-Friendly Options
6. Navigating Add Maths Form 4 Chapter 1 Notes Mbfsfj eBook Formats
  - ePub, PDF, MOBI, and More
  - Add Maths Form 4 Chapter 1 Notes Mbfsfj Compatibility with Devices
  - Add Maths Form 4 Chapter 1 Notes Mbfsfj Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Add Maths Form 4 Chapter 1 Notes Mbfsfj
  - Highlighting and Note-Taking Add Maths Form 4 Chapter 1 Notes Mbfsfj
  - Interactive Elements Add Maths Form 4 Chapter 1 Notes Mbfsfj
8. Staying Engaged with Add Maths Form 4 Chapter 1 Notes Mbfsfj
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Add Maths Form 4 Chapter 1 Notes Mbfsfj
9. Balancing eBooks and Physical Books Add Maths Form 4 Chapter 1 Notes Mbfsfj
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Add Maths Form 4 Chapter 1 Notes Mbfsfj
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Add Maths Form 4 Chapter 1 Notes Mbfsfj
  - Setting Reading Goals Add Maths Form 4 Chapter 1 Notes Mbfsfj
  - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Add Maths Form 4 Chapter 1 Notes Mbfsfj
  - Fact-Checking eBook Content of Add Maths Form 4 Chapter 1 Notes Mbfsfj
  - 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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