

SECTION I

ALGEBRA, SEQUENCES AND SERIES

ALL working must be clearly shown.

1. (a) Consider the quadratic equation  $qx^2 - (4p)x + pq^2 = 0$ , where  $p$  and  $q$  are both positive integers.
- (i) Express the sum AND product of the roots of the equation in terms of  $p$  and  $q$ .

**SOLUTION:**

**Data:**  $qx^2 - (4p)x + pq^2 = 0$

**Required to express:** The sum AND product of the roots of the equation in terms of  $p$  and  $q$ .

**Solution:**

If  $ax^2 + bx + c = 0$  has roots  $\alpha$  and  $\beta$ , then

$$(x - \alpha)(x - \beta) = 0$$

$$\text{i.e. } x^2 - (\alpha + \beta)x + \alpha\beta = 0$$

Equating coefficients, we have

The sum of the roots,  $\alpha + \beta = -\frac{b}{a}$  and the product of the roots

$$\alpha\beta = \frac{c}{a}$$

In the given equation  $qx^2 - (4p)x + pq^2 = 0$ , we have  $a = q$ ,  $b = -4p$  and  $c = pq^2$

$$\begin{aligned} \text{Sum of the roots} &= \frac{-(-4p)}{q} \\ &= \frac{4p}{q} \end{aligned}$$

$$\begin{aligned} \text{Product of the roots} &= \frac{pq^2}{q} \\ &= pq \end{aligned}$$

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## **Table of Contents Xtreme Paper Add Maths**

1. Understanding the eBook Xtreme Paper Add Maths
  - The Rise of Digital Reading Xtreme Paper Add Maths
  - Advantages of eBooks Over Traditional Books
2. Identifying Xtreme Paper Add Maths
  - 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 Xtreme Paper Add Maths
  - User-Friendly Interface
4. Exploring eBook Recommendations from Xtreme Paper Add Maths
  - Personalized Recommendations
  - Xtreme Paper Add Maths User Reviews and Ratings
  - Xtreme Paper Add Maths and Bestseller Lists
5. Accessing Xtreme Paper Add Maths Free and Paid eBooks

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