

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 α and β , 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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Xiaolong Qi

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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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