

এস এস সি গণিত (আবশ্যিক)

অধ্যায়-৩: বীজগণিতিক রাশি

উদাহরণ ১ $A = x + y + z$, $B = x^2 - \sqrt{3} + 1$ এবং $C = x^2 + \frac{1}{x}$

উদ্দেশ্য: দুটি বা ততোধিক রাশি যোগ করা

- ক. প্রদত্ত কর যে, $x^2 + y^2 + z^2 - 3xyz$ যখন $A = 0$,
 খ. $B = 0$ হলে $(x^2 + \frac{1}{x}) + (x^2 + \frac{1}{x})$ এর মান নির্ণয় কর।
 গ. প্রদত্ত কর যে, $x = \frac{2 + \sqrt{3}}{2}$, যখন $C = 18$.

১. দু'টি রাশির সমন্বয়

- ক** দেওয়া আছে, $A = x + y + z$ এবং $A = 0$
 $\therefore x + y + z = 0$
 $\Rightarrow x + y = -z$
 গ. $(x + y)^2 = (-z)^2$
 $\Rightarrow x^2 + y^2 + 3xy = (-z)^2 = -z^2$
 $\Rightarrow x^2 + y^2 + z^2 + 3xy = 0$
 খ. $x^2 + y^2 + z^2 - 3xyz = 0$
 $\therefore x^2 + y^2 + z^2 = 3xyz$ (প্রমাণিত)

- খ** প্রদত্ত, $B = x^2 - \sqrt{3} + 1$ এবং $B = 0$
 $\therefore x^2 - \sqrt{3} + 1 = 0$
 $\Rightarrow x^2 + 1 = \sqrt{3}x$
 $\Rightarrow x + \frac{1}{x} = \sqrt{3}$

প্রদত্ত রাশি $= (x + \frac{1}{x}) + (x^2 + \frac{1}{x^2})$
 $= \left\{ (x + \frac{1}{x})^2 - 3x \cdot \frac{1}{x} \left(x + \frac{1}{x} \right) \right\} + \left\{ (x + \frac{1}{x})^2 - 2x \cdot \frac{1}{x} \right\}$
 $= \left\{ (\sqrt{3})^2 - 3\sqrt{3} \right\} + \left\{ (\sqrt{3})^2 - 2 \right\}$
 $= (3\sqrt{3} - 3\sqrt{3}) + (3 - 2) = 0 + 1 = 1$ (Ans.)

- গ** প্রদত্ত, $C = x^2 + \frac{1}{x}$ এবং $C = 18$

$\therefore x^2 + \frac{1}{x} = 18$
 গ. $x^2 + 1 = 18x$
 $\Rightarrow x^2 - 18x + 1 = 0$
 $\Rightarrow x^2 - 18x^2 + 81 - 80 = 0$
 $\Rightarrow (x^2)^2 - 2x^2 \cdot 9 + 9^2 - 80 = 0$
 $\Rightarrow (x^2)^2 - 9^2 + (4\sqrt{3})^2$
 $\Rightarrow x^2 - 9 + 4\sqrt{3}$
 $\Rightarrow x^2 - 9 + 4\sqrt{3}$
 $\Rightarrow x^2 = \frac{72}{8} - \frac{32\sqrt{3}}{8} = \frac{72 - 32\sqrt{3}}{8} = \frac{27 - 22\sqrt{3} + 45 - 2\sqrt{3}}{8}$
 $\Rightarrow x^2 = \frac{2^2 + 2 \cdot 2 \cdot \sqrt{3} + 3 \cdot 3 \cdot (\sqrt{3})^2 + 6\sqrt{3}}{8}$
 $\Rightarrow x^2 = \frac{(2 + \sqrt{3})^2}{8}$
 $\Rightarrow x = \frac{2 + \sqrt{3}}{2}$ (প্রমাণিত)

উদাহরণ ২ x এবং $\frac{1}{x}$ এর পূর্ণাঙ্কক বিশ্লিষ্ট রাশির সূত্রটি ১.

উদ্দেশ্য: দুটি বা ততোধিক রাশি যোগ করা

- ক. $x - \frac{1}{x}$ এর মান নির্ণয় কর।
 খ. দেওয়া আছে, $\frac{x^2 + 1}{x} = 12$
 গ. $x^4 - 7x^2 + 1 = 0$ এর সমাধান খুঁজি কর।

২. দু'টি রাশির সমন্বয়

- ক** x এর পূর্ণাঙ্কক বিশ্লিষ্ট রাশি $\frac{1}{x}$

প্রদত্তভাবে, $x + \frac{1}{x} = 3$

- গ. $(x + \frac{1}{x})^2 = 9$ [বর্গ করে]
 $\Rightarrow x^2 + \frac{1}{x^2} + 4x \cdot \frac{1}{x} = 9$
 $\Rightarrow x^2 + \frac{1}{x^2} + 4 = 9$
 $\Rightarrow x^2 + \frac{1}{x^2} = 5$
 $\therefore x - \frac{1}{x} = \pm\sqrt{5}$ (Ans.)

- খ** '৩' হতে রাশি $x + \frac{1}{x} = 3$

সমন্বয় $= \frac{x^2 + 1}{x} = \frac{x^2}{x} + \frac{1}{x} = x + \frac{1}{x}$
 $= (x + \frac{1}{x})^2 - 3x \cdot \frac{1}{x} \left(x + \frac{1}{x} \right)$
 $= 3^2 - 3 \cdot 3 \cdot 3$ [মান বসিয়ে]
 $= 9 - 27 = -18 =$ উত্তর
 $\therefore \frac{x^2 + 1}{x} = -18$ (দেখানোর মতো)

- গ** $x^4 - 7x^2 + 1 = 0$

গ. $x^4 + 1 = 7x^2$
 $\Rightarrow x^4 - 7x^2 + 1 = 0$
 $\Rightarrow x^2 - 7x^2 + 81 - 80 = 0$
 $\Rightarrow (x^2)^2 - 2x^2 \cdot 9 + 9^2 - 80 = 0$
 $\Rightarrow (x^2)^2 - 9^2 + (4\sqrt{3})^2$
 $\Rightarrow x^2 - 9 + 4\sqrt{3}$
 $\Rightarrow x^2 = \frac{72}{8} - \frac{32\sqrt{3}}{8} = \frac{72 - 32\sqrt{3}}{8} = \frac{27 - 22\sqrt{3} + 45 - 2\sqrt{3}}{8}$
 $\Rightarrow x^2 = \frac{2^2 + 2 \cdot 2 \cdot \sqrt{3} + 3 \cdot 3 \cdot (\sqrt{3})^2 + 6\sqrt{3}}{8}$
 $\Rightarrow x^2 = \frac{(2 + \sqrt{3})^2}{8}$
 $\therefore x + \frac{1}{x} = 3$ এর জন্য $x^4 - 7x^2 + 1 = 0$ সমীকরণটি সত্য।

উদাহরণ ৩ $a^2 + b^2 = 3ab$ যেখানে $a > b$

উদ্দেশ্য: দুটি বা ততোধিক রাশি যোগ করা

- ক. $\frac{a^2 + b^2}{a^2 - b^2} =$ কত?
 খ. $\frac{a^2 + b^2}{a^2 - b^2}$ এর মান নির্ণয় কর।
 গ. প্রদত্ত কর যে, $\frac{a^2}{b^2} - \frac{b^2}{a^2} = 2\sqrt{3}$

৩. দু'টি রাশির সমন্বয়

- ক** দেওয়া আছে, $a^2 + b^2 = 3ab$ যেখানে, $a > b$
 $\Rightarrow \frac{a^2 + b^2}{ab} = \frac{3ab}{ab}$ [উভয়পক্ষে ab দ্বারা ভাগ করে]
 $\Rightarrow \frac{a^2}{ab} + \frac{b^2}{ab} = 3$
 $\Rightarrow \frac{a}{b} + \frac{b}{a} = 3$ (Ans.)

- খ** '৩' হতে রাশি $\frac{a^2}{b^2} + \frac{b^2}{a^2} = 3$

$\therefore \frac{a^2}{b^2} + \frac{b^2}{a^2} = \frac{a^2}{b^2} + \frac{b^2}{a^2} = \frac{a^2}{b^2} + \frac{b^2}{a^2}$

$= \left(\frac{a}{b}\right)^2 + \left(\frac{b}{a}\right)^2 = \left(\frac{a}{b} + \frac{b}{a}\right)^2 - 2 \cdot \frac{a}{b} \cdot \frac{b}{a}$
 $= (3)^2 - 2 = 9 - 2 = 7$ (Ans.)

- গ** দেওয়া আছে, $2a + \frac{b}{a} = 5$

$\therefore 2a^2 + \frac{b^2}{a} = (2a + \frac{b}{a})^2 - 3 \cdot 2a \cdot \frac{b}{a} = (2a + \frac{b}{a})^2 - 6b$

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Table of Contents Math Solution Of Class 9 Bd

1. Understanding the eBook Math Solution Of Class 9 Bd
 - The Rise of Digital Reading Math Solution Of Class 9 Bd
 - Advantages of eBooks Over Traditional Books
2. Identifying Math Solution Of Class 9 Bd
 - 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 Math Solution Of Class 9 Bd
 - User-Friendly Interface
4. Exploring eBook Recommendations from Math Solution Of Class 9 Bd
 - Personalized Recommendations
 - Math Solution Of Class 9 Bd User Reviews and Ratings
 - Math Solution Of Class 9 Bd and Bestseller Lists
5. Accessing Math Solution Of Class 9 Bd Free and Paid eBooks

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