

অধ্যায় ৪

১।  $x^2 + \frac{1}{x} = 3$  একটি বীজগণিতীয় সমীকরণ।

(ক)  $\left(x + \frac{1}{x}\right)^2$  এর মান নির্ণয় কর।

(খ)  $\frac{x^3+1}{x}$  এর মান কত?

(গ)  $x^2 - \frac{1}{x}$  এর মান নির্ণয় করে মান বের কর।

উত্তর : (ক) 5 (খ)  $2\sqrt{5}$  (গ)  $5\sqrt{5}$

২।  $x + y = 3$  এবং  $xy = 2$ ; যেখানে  $x > y$

(ক)  $x - y$  এর মান নির্ণয় কর।

(খ)  $x^3 + y^3 - 3(x^2 - y^2)$  এর মান নির্ণয় কর।

(গ) দেখাও যে,  $(x^2 + y^2)(x^3 + y^3) = 153$

উত্তর : (ক) 1 (খ) 0

৩।  $y^2 - 2y - 1 = 0$  এবং  $y^4 + y^2 + 1$

(ক) ২য় রশিকে উৎপাদকে বিশ্লেষণ কর।

(খ) ১ম সমীকরণ থেকে  $y^2 + \frac{1}{y}$  এর মান নির্ণয় কর।

(গ)  $\left(\frac{y^6-1}{y^2}\right) \left(y + \frac{1}{y}\right)$  এর মান নির্ণয় কর।

উত্তর : (ক)  $(y^2 + y + 1)(y^2 - y + 1)$  (খ) 6 (গ)  $28\sqrt{2}$

৪।  $x + \frac{1}{x} = 2$  একটি বীজগণিতীয় সমীকরণ, যেখানে  $x > 0$ .

(ক) দেখাও যে,  $x^2 - 2x + 1 = 0$ .

(খ)  $x^2 - \frac{1}{x}$  এর মান নির্ণয় কর।

(গ) প্রমাণ কর যে,  $x^2 + \frac{1}{x} = x^4 + \frac{1}{x^2}$

উত্তর : (খ) 0

৫। দুইটি সংখ্যা  $a$  ও  $b$ , যেখানে  $a > b$ ; সংখ্যাযুগ্মের যোগফল 12 এবং গুণফল 32।

(ক) যুগ্মের সাহায্যে গুল করো :  $(2x + 3)(2x - 7)$

(খ)  $2x^2 + 2bx^2$  এর মান নির্ণয় কর।

(গ) প্রমাণ কর যে,  $(a + 2b)^2 - 5b^2 = 176$

উত্তর : (ক)  $4x^2 - 8x - 21$  (খ) 160

৬।  $3x - 5y + 3z$  এবং  $3x + 5y - z$  দুইটি বীজগণিতিক রশি।

(ক) ১ম রশিটির বর্গ নির্ণয় করো।

(খ) রশি দুইটির গুণফলকে দুটি বর্গের অন্তররূপে প্রকাশ করো।

(গ) ২য় রশিটির মান শূন্য হলে প্রমাণ কর যে,

$27x^3 + 125y^3 + 45xyz = x^3$

উত্তর : (ক)  $9x^2 + 25y^2 + 9z^2 - 30xy - 30yz + 18xz$

(খ)  $(3x + z)^2 - (5y - 2z)^2$

৭।  $a^2 + b^2, 15x - 20y, 9x^2 - 16y^2, 27x^3 - 64y^3$  চারটি বীজগণিতিক রশি।

(ক) প্রথম রশিটির বর্গ নির্ণয় কর।

(খ) ১-২ রশিটির মান  $c^2$  হলে প্রমাণ কর যে,  $a^6 + b^6 - c^6 + 3a^2b^2c^2 = 0$

(গ) দ্বিতীয়, তৃতীয় ও চতুর্থ রশিগুলি ল.সা.পূ. নির্ণয় কর।

উত্তর : (ক)  $a^4 + 2a^2b^2 + b^4$  (খ)  $5(9x^2 - 16y^2)(9x^3 + 12xy + 16y^3)$

৮।  $x^2 - 3x + 1 = 0$

(ক)  $x + \frac{1}{x}$  এর মান নির্ণয় কর।

(খ) প্রমাণ কর যে,  $x^4 + \frac{1}{x^4} = 47$

(গ)  $\frac{x^6-1}{x^2}$  এর মান নির্ণয় কর।

উত্তর : (ক) 3 (খ)  $8\sqrt{5}$

৯।  $b^2 - 2b - 1 = 0$  এবং  $b$  ধনাত্মক।

(ক)  $b - \frac{1}{b}$  এর মান নির্ণয় কর।

(খ)  $\left(b^2 + \frac{1}{b^2}\right) \left(b^2 - \frac{1}{b^2}\right)$  এর মান কত?

(গ) দেখাও যে,  $\frac{b^4-1}{b^2} = 4\sqrt{2}$

উত্তর : (ক) 2 (খ) 84

১০।  $P = 3x^2 - 16x - 12, Q = 3x^2 + 5x + 2,$

$R = 3x^2 - x - 2$  তিনটি বীজগণিতিক রশি।

(ক) উৎপাদকে বিশ্লেষণ বলতে কী বুঝায়?

(খ)  $Q = 0$  হলে  $9x^2 + \frac{4}{x}$  এর মান নির্ণয় করো।

(গ)  $P, Q, R$  এর ল.সা.পূ. নির্ণয় করো।

উত্তর : (খ) 13 (গ)  $(3x + 2)(x^2 - 1)(x - 6)$

১১।  $x^2 - y^2, 2x + 2y$  এবং  $2x^2y + 2xy^2$  তিনটি বীজগণিতীয় রশি।

(যেখানে  $x > 0$ )

(ক) ১ম রশির বর্গ নির্ণয় কর।

(খ) রশি তিনটির ল.সা.পূ. নির্ণয় কর।

(গ) ২য় রশি  $= 6$  এবং  $xy = -4$  হলে  $x^2 - y^2$  এর মান নির্ণয় কর।

উত্তর : (ক)  $x^4 - 2x^2y^2 + y^4$  (খ)  $2xy(x^2 - y^2)$  (গ) 65

১২।  $p^2 - 3p + 1 = 0$  একটি বীজগণিতিক সমীকরণ।

(ক)  $\left(p + \frac{1}{p}\right)$  এর মান নির্ণয় কর।

(খ)  $\left(p^2 - \frac{1}{p}\right)$  এর মান নির্ণয় কর।

(গ) প্রমাণ কর যে,  $\left(p^2 + \frac{1}{p^2}\right) \left(p^3 + \frac{1}{p}\right) = 126$

উত্তর : (ক) 3 (খ)  $3\sqrt{5}$

১৩।  $x + \frac{1}{x} = 2$  একটি বীজগণিতীয় সমীকরণ, যেখানে  $x > 0$ .

(ক) দেখাও যে,  $x^2 - 2x + 1 = 0$ .

(খ)  $x^2 - \frac{1}{x}$  এর মান নির্ণয় কর।

(গ) প্রমাণ কর যে,  $x^3 + \frac{1}{x} = x^4 + \frac{1}{x^2}$

উত্তর : (খ) 0

১৪।  $x - 5 = \frac{1}{x}$  হলে,

(ক)  $\left(x + \frac{1}{x}\right)^2$  এর মান নির্ণয় কর।

(খ)  $x^3 + \frac{1}{x}$  এর মান নির্ণয় কর।

(গ) প্রমাণ কর যে,  $x^4 = 727 - \frac{1}{x^2}$

উত্তর : (ক) 29 (খ)  $26\sqrt{29}$

১৫। (i)  $a^3 - 3a^2 - 10a, a^3 + 6a^2 + 8a, a^4 - 5a^3 - 14a^2$  তিনটি

বীজগণিতিক রশি।

(ii)  $P = y - 2, Q = y^2 + 2y + 4$  এবং  $R = y^3 + 8$

(ক) (i) এর তৃতীয় রশিকে উৎপাদকে বিশ্লেষণ কর।

(খ) (i) এর তিনটি রশির ল.সা.পূ. নির্ণয় কর।

(গ) সরল কর :  $\frac{1}{P} - \frac{y-2}{Q} + \frac{6y}{R}$

উত্তর : (ক)  $x^2(x-7)(x+2)$  (খ)  $a(a+2)$  (গ)  $\frac{12y^4}{y^2-64}$

# Jsc Math Suggestion

**Joacim Rocklöv**



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### **Table of Contents Jsc Math Suggestion**

1. Understanding the eBook Jsc Math Suggestion
  - The Rise of Digital Reading Jsc Math Suggestion
  - Advantages of eBooks Over Traditional Books
2. Identifying Jsc Math Suggestion
  - 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 Jsc Math Suggestion
  - User-Friendly Interface
4. Exploring eBook Recommendations from Jsc Math Suggestion
  - Personalized Recommendations
  - Jsc Math Suggestion User Reviews and Ratings

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