

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, $x^2 + \frac{1}{x} = x^4 + \frac{1}{x^3}$

উত্তর : (খ) 0

৫। দুইটি সংখ্যা a ও b , যেখানে $a > b$; সংখ্যাযুগ্মের যোগফল 12 এবং গুনফল 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 গুনফলকে 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, $\left(p^2 + \frac{1}{p^2}\right) \left(p^3 + \frac{1}{p^3}\right) = 126$

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, $x^3 + \frac{1}{x} = x^4 + \frac{1}{x^3}$

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, $x^4 = 727 - \frac{1}{x^4}$

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 রশি 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) $\frac{12y^4}{y^2-64}$

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The Top Books of the Year Jsc Math Suggestion And Question 2015 Format The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Jsc Math Suggestion And Question 2015 Format : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Jsc Math Suggestion And Question 2015 Format : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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Table of Contents Jsc Math Suggestion And Question 2015 Format

1. Understanding the eBook Jsc Math Suggestion And Question 2015 Format
 - The Rise of Digital Reading Jsc Math Suggestion And Question 2015 Format
 - Advantages of eBooks Over Traditional Books
2. Identifying Jsc Math Suggestion And Question 2015 Format
 - 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 And Question 2015 Format
 - User-Friendly Interface
4. Exploring eBook Recommendations from Jsc Math Suggestion And Question 2015 Format
 - Personalized Recommendations
 - Jsc Math Suggestion And Question 2015 Format User Reviews and Ratings
 - Jsc Math Suggestion And Question 2015 Format and Bestseller Lists
5. Accessing Jsc Math Suggestion And Question 2015 Format Free and Paid eBooks
 - Jsc Math Suggestion And Question 2015 Format Public Domain eBooks
 - Jsc Math Suggestion And Question 2015 Format eBook Subscription Services
 - Jsc Math Suggestion And Question 2015 Format Budget-Friendly Options
6. Navigating Jsc Math Suggestion And Question 2015 Format eBook Formats
 - ePub, PDF, MOBI, and More
 - Jsc Math Suggestion And Question 2015 Format Compatibility with Devices
 - Jsc Math Suggestion And Question 2015 Format Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Jsc Math Suggestion And Question 2015 Format
 - Highlighting and Note-Taking Jsc Math Suggestion And Question 2015 Format
 - Interactive Elements Jsc Math Suggestion And Question 2015 Format
8. Staying Engaged with Jsc Math Suggestion And Question 2015 Format

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Jsc Math Suggestion And Question 2015 Format
- 9. Balancing eBooks and Physical Books Jsc Math Suggestion And Question 2015 Format
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Jsc Math Suggestion And Question 2015 Format
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Jsc Math Suggestion And Question 2015 Format
 - Setting Reading Goals Jsc Math Suggestion And Question 2015 Format
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Jsc Math Suggestion And Question 2015 Format
 - Fact-Checking eBook Content of Jsc Math Suggestion And Question 2015 Format
 - 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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