

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 রশ্মিকে 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 $x > 0$.

[কুমিল্লা বোর্ড-২০১৫]

(ক) দেখাও যে, $a^2 - 2a + 1 = 0$.

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

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

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) $2a^2 + 2b^2$ 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 রাশি।

(ক) ১ম রাশিটির বর্গ নির্ণয় করো।

(খ) রাশি দুইটির গুণফলকে দু'টি বর্গের অন্তররূপে প্রকাশ করো।

(গ) ২য় রাশিটির 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 রাশি।

[দিনাজপুর বোর্ড-২০১৫]

(ক) প্রথম রাশিটির বর্গ নির্ণয় কর।

(খ) ৩-রাশিটির মান c^2 হলে প্রমাণ কর যে, $a^6 + b^6 - c^6 + 3a^2b^2c^2 = 0$

(গ) দ্বিতীয়, তৃতীয় ও চতুর্থ রাশিগুলি 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। $x^2 - 3a + 1 = 0$

[ঢাকা বোর্ড-২০১৫]

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

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

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

উত্তর : (ক) 3 (খ) $8\sqrt{5}$

৯। $b^2 - 2b - 1 = 0$ এবং b ধনাত্মক।

[দিনাজপুর বোর্ড-২০১৫]

(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 রাশি।

(ক) উৎপাদকে বিশ্লেষণ করতে কী কৌশল?

(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 বীজগণিতিক রাশি।

[যশোর বোর্ড-২০১৫]

(ক) ১ম রাশির বর্গ নির্ণয় কর।

(খ) রাশি তিনটির ল.সা.পূ. নির্ণয় কর।

(গ) ২য় রাশি $= 6$ 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। [চট্টগ্রাম বোর্ড-২০১৫]

(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। $a + \frac{1}{a} = 2$ একটি বীজগণিতিক সমীকরণ, যেখানে $a > 0$.

[কুমিল্লা বোর্ড-২০১৫]

(ক) দেখাও যে, $a^2 - 2a + 1 = 0$.

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

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

উত্তর : (খ) 0

১৪। $x - 5 = \frac{1}{x}$ হলে,

[বরিশাল বোর্ড-২০১৫]

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

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

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

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 রাশি। [ঢাকা বোর্ড-২০১৫]

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

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

(খ) (i) এর তিনটি রাশির 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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M Lipman



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NASA's Human Space Exploration United States. Congress. Senate. Committee on Commerce, Science, and Transportation. Subcommittee on Science and Space, 2012 *Algebraic and Geometric Methods in Discrete Mathematics* Heather A. Harrington, Mohamed Omar, Matthew Wright, 2017-03-16 This volume contains the proceedings of the AMS Special Session on Algebraic and Geometric Methods in Applied Discrete Mathematics held on January 11, 2015, in San Antonio, Texas. The papers present connections between techniques from pure mathematics and various applications amenable to the analysis of discrete models encompassing applications of combinatorics, topology, algebra, geometry, optimization, and representation theory. Papers not only present novel results but also survey the current state of knowledge of important topics in applied discrete mathematics. Particular highlights include a new computational framework based on geometric combinatorics for structure prediction from RNA sequences, a new method for approximating the optimal solution of a sum of squares problem, a survey of recent Helly type geometric theorems, applications of representation theory to voting theory and game theory, a study of fixed points of tensors and exponential random graph models from the perspective of algebraic statistics with applications to networks. This volume was written for those trained in areas such as algebra, topology, geometry, and combinatorics who are interested in tackling problems in fields such as biology, the social sciences, data analysis, and optimization. It may be useful not only for experts but also for students who wish to gain an applied or interdisciplinary perspective. *SCHOLAR -- a Scientific Celebration Highlighting Open Lines of Arithmetic Research* A. C. Cojocaru, C. David, F. Pappalardi, 2015-12-22 M. Ram Murty has had a profound impact on the development of number theory throughout the world. To honor his mathematical legacy, a conference focusing on new research directions in number theory inspired by his most significant achievements was held from October 15-17, 2013, at the Centre de Recherches Mathématiques in Montréal. This proceedings volume is representative of the broad spectrum of topics that were addressed at the conference, such as elliptic curves, function fields, arithmetic Galois representations, functions, modular forms, and automorphic forms, sieve methods, and transcendental number theory. This book is co-published with the Centre de Recherches Mathématiques.

International Practices to Promote Budget Literacy Harika Masud, Helene Pfeil, Sanjay Agarwal, Alfredo Gonzalez Briseno, 2017-08-09 Budget literacy is defined as the ability to read, decipher, and understand public budgets to enable and enhance meaningful citizen participation in the budget process. It is comprised of two main parts: i) a technical understanding

of public budgets including familiarity with government spending tax rates and public debt and ii the ability to engage in the budget process comprising of practical knowledge on day to day issues as well as an elementary understanding of the economic social and political implications of budget policies the stakeholders involved and when and how to provide inputs during the annual budget cycle Given that no international standards or guidelines have been established for budget literacy education to date this book seeks to address this gap by taking stock of illustrative initiatives promoting budget literacy for youth in selected countries The underlying presumption is that when supply side actors in the budget process governments simplify and disseminate budget information for demand side actors citizens this information will then be used by citizens to provide feedback on the budget However since citizens are often insufficiently informed about public budgets to constructively participate in budget processes one way to empower them and to remedy the problem of budget illiteracy is to provide budget literacy education in schools to youth helping them evolve into civic minded adults with the essential knowledge needed for analyzing their government s fiscal policy objectives and measures and the confidence and sense of social responsibility to participate in the oversight of public resources This book elaborates on approaches learning outcomes pedagogical strategies and assessment approaches for budget literacy education and presents lessons that are relevant for the development improvement or scaling up of budget literacy initiatives

Metallurgical Abstracts ,1963 **Journal of the Institute of Metals** Institute of Metals,1962 *Social Sciences Index* ,1997 **Mathematics** ,2024 *Sqa Specimen Paper 2014 Past Paper National 5 Lifeskills Mathematics Sqa* (Hodder Ed),2014-09-26 **Rookie Contest Problems Vol. 1** Perennial Math LLC,2014-04-28 Contest Problems from November 2012 February 2014 Online Competition for grades 3 4 Rookie Level The book contains 8 tests and solutions

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