অধ্যায় ৪

১। $x^2 + \frac{1}{x^2} = 3$ একটি বীজগণিতীয় সমীকরণ।
(ক) $\left(x + \frac{1}{x}\right)^2$ এর মান নির্ণয় কর।
(খ) $\frac{x^4 + 1}{x^2}$ এর মান কর?
(গ) $x^2 - \frac{1}{x^2}$ 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, $(x^4 + y^4)(x^3 + y^3) = 153$
উত্তর : (ক) 1 (খ) 0

৩। $y^2 - 2y - 1 = 0$ এবং $y^4 + y^2 + 1$
(ক) ২য় রাশিকে উৎপাদকে বিশ্লেষণ কর।
(খ) ১ম সমীকরণ থেকে $y^2 + \frac{1}{y^2}$ এর মান নির্ণয় কর।
(গ) $\left(\frac{y^4 - 1}{y^2}\right)\left(y + \frac{1}{y}\right)$ এর মান নির্ণয় কর।
উত্তর : (ক) $(y^2 + y + 1)(y^2 - y + 1)$ (খ) 6 (গ) $28\sqrt{2}$

৪। $a + \frac{1}{a} = 2$ একটি বীজগণিতীয় সমীকরণ, যেখানে $a > 0$. [কুমিল্লা বোর্ড-২০২৪]
(ক) দেখাও যে, $a^2 - 2a + 1 = 0$.
(খ) $a^2 - \frac{1}{a^2}$ এর মান নির্ণয় কর।
(গ) প্রমাণ কর যে, $a^2 + \frac{1}{a^2} = a^4 + \frac{1}{a^4}$.
উত্তর : (খ) 0

৫। দুইটি সংখ্যা a ও b, যেখানে $a > b$। সংখ্যাদ্বয়ের যোগফল 12 এবং গুণফল 32।
(ক) সূত্রের সাহায্যে গুণ 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 দুটি বর্গের অন্তররূপে প্রকাশ করো।
(গ) ২য় রাশিটির মান শূন্য হলে প্রমাণ কর যে,
$27x^3 + 125y^3 + 45xyz = z^3$
উত্তর : (ক) $9x^2 + 25y^2 + 9z^2 - 30xy - 30yz + 18zx$
(খ) $(3x + z)^2 - (5y - 2x)^2$

৭। $a^2 + b^2$, $15x - 20y$, $9x^2 - 16y^2$, $27x^3 - 64y^3$ চারটি বীজগণিতিক রাশি। [দিনাজপুর বোর্ড-২০২৪]
(ক) প্রথম রাশিটির বর্গ নির্ণয় কর।
(খ) ১ রাশিটির মান c^3 হলে প্রমাণ কর যে, $a^6 + b^6 - c^6 + 3a^2b^2c^2 = 0$
(গ) দ্বিতীয়, তৃতীয় ও চতুর্থ রাশির ল.সা.গু. নির্ণয় কর।
উত্তর : (ক) $a^4 + 2a^2b^2 + b^4$ (গ) $5(9x^2 - 16y^2)(9x^2 + 12xy + 16y^2)$

৮। $a^2 - 3a + 1 = 0$ [রাজশাহী বোর্ড-২০২৪]
(ক) $a + \frac{1}{a}$ এর মান নির্ণয় কর।
(খ) প্রমাণ কর যে, $a^4 + \frac{1}{a^4} = 47$
(গ) $\frac{a^2 - 1}{a^2}$ এর মান নির্ণয় কর।
উত্তর : (ক) 3 (গ) $8\sqrt{5}$

৯। $b^2 - 2b - 1 = 0$ এবং b ধনাত্মক। [সিলেট বোর্ড-২০২৪]
(ক) $b - \frac{1}{b}$ এর মান নির্ণয় কর।
(খ) $\left(b^2 + \frac{1}{b^2}\right)\left(b^3 - \frac{1}{b^3}\right)$ এর মান কর?
(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 বলতে কী বুঝায়?
(খ) $Q = 0$ হলে $9x^2 + \frac{4}{x^2}$ এর মান নির্ণয় করো।
(গ) P, Q, R এর ল.সা.গু. 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 রাশি। [যশোর বোর্ড-২০২৪]
(ক) ১ম রাশির বর্গ নির্ণয় কর।
(খ) রাশি তিনটির ল.সা.গু. নির্ণয় কর।
(গ) ২য় রাশি = 6 এবং $xy = -4$ হলে $x^3 - y^3$ 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 বীজগণিতীয় সমীকরণ। [চট্টগ্রাম বোর্ড-২০২৪]
(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। $a + \frac{1}{a} = 2$ একটি বীজগণিতীয় সমীকরণ, যেখানে $a > 0$. [কুমিল্লা বোর্ড-২০২৪]
(ক) দেখাও যে, $a^2 - 2a + 1 = 0$.
(খ) $a^2 - \frac{1}{a^2}$ এর মান নির্ণয় কর।
(গ) প্রমাণ কর যে, $a^3 + \frac{1}{a^3} = a^4 + \frac{1}{a^4}$.
উত্তর : (খ) 0

১৪। $a - 5 = \frac{1}{a}$ হলে, [বরিশাল বোর্ড-২০২৪]
(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, $a^6 = 727 - \frac{1}{a^6}$.
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-২০২৪]
(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.গু. নির্ণয় কর।
(গ) সরল কর : $\frac{1}{P} - \frac{y-2}{Q} + \frac{6y}{R}$
উত্তর : (ক) $a^2(a - 7)(a + 2)$ (খ) $a(a + 2)$ (গ) $\frac{12y^4}{y^6 - 64}$

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