

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) $\left(\frac{y^6-1}{y}\right)\left(y + \frac{1}{y}\right)$ 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 $a > b$; সংখ্যাগুলোর যোগফল 12 এবং গুণফল 32।

(ক) সূত্রের 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 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,

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

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।

(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। $x^2 - 3x + 1 = 0$

(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 রাশি।

(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 রাশি।

(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।

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

উত্তর : (খ) 0

১৪। $x - 5 = \frac{1}{x}$ হলে,

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

(খ) $x^3 + \frac{1}{x^3}$ 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 রাশি।

(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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