(খ) ক হতে পাই, $x + \dfrac{1}{x} = \dfrac{3}{2}$

প্রদত্ত রাশি $= x^2 + \dfrac{1}{x^2} = (x^2)^2 + \left(\dfrac{1}{x^2}\right)^2$

$= \left(x^2 + \dfrac{1}{x^2}\right)^2 - 2 \cdot x^2 \cdot \dfrac{1}{x^2} = \left\{\left(x + \dfrac{1}{x}\right)^2 - 2 \cdot x \cdot \dfrac{1}{x}\right\}^2 - 2$

$= \left\{\left(\dfrac{3}{2}\right)^2 - 2\right\}^2 - 2 \quad [\because x + \dfrac{1}{x} = \dfrac{3}{2}]$

$= \left(\dfrac{9}{4} - 2\right)^2 - 2 = \left(\dfrac{9-8}{4}\right)^2 - 2$

$= \left(\dfrac{1}{4}\right)^2 - 2 = \dfrac{1}{16} - 2 = \dfrac{1-32}{16} = -\dfrac{31}{16}$

নির্ণেয় মান $-\dfrac{31}{16}$

(গ) ক হতে পাই, $x + \dfrac{1}{x} = \dfrac{3}{2}$

বা, $\left(x + \dfrac{1}{x}\right)^3 = \left(\dfrac{3}{2}\right)^3$ [উভয়পক্ষকে ঘন করে]

বা, $x^3 + \left(\dfrac{1}{x}\right)^3 + 3 \cdot x \cdot \dfrac{1}{x}\left(x + \dfrac{1}{x}\right) = \dfrac{27}{8}$

বা, $x^3 + \dfrac{1}{x^3} + 3 \cdot \dfrac{3}{2} = \dfrac{27}{8} \quad [\because x + \dfrac{1}{x} = \dfrac{3}{2}]$

বা, $x^3 + \dfrac{1}{x^3} + \dfrac{9}{2} = \dfrac{27}{8}$ বা, $x^3 + \dfrac{1}{x^3} = \dfrac{27}{8} - \dfrac{9}{2}$

বা, $\dfrac{x^6 + 1}{x^3} = \dfrac{27-36}{8}$ বা, $\dfrac{x^6+1}{x^3} = \dfrac{-9}{8}$

বা, $8(x^6 + 1) = -9x^3$ $\therefore 8x^6 + 9x^3 + 8 = 0$ (প্রমাণিত)

২। $x^2 - 2x + 1,\ x^2 - 1$ এবং $x^2 - 5x + 4$ তিনটি বীজগণিতীয় রাশি।
★ ★ [রাজশাহী বোর্ড-২০১৬]

(ক) $x - \dfrac{1}{x} = 3$ হলে, $\left(x + \dfrac{1}{x}\right)^2$ এর মান নির্ণয় কর। ২

(খ) ১ম রাশি $= 2x$ হলে, প্রমাণ কর যে, $x^4 + \dfrac{1}{x^4} = 194$ ৪

(গ) রাশি তিনটির ল.সা.গু. নির্ণয় কর। ৪

সমাধান : (ক) লেখা আছে, $x - \dfrac{1}{x} = 3$

এখন, $\left(x + \dfrac{1}{x}\right)^2 = \left(x - \dfrac{1}{x}\right)^2 + 4 \cdot x \cdot \dfrac{1}{x}$

$= (3)^2 + 4 = 9 + 4 = 13$

(খ) প্রশ্নমতে, $x^2 - 2x + 1 = 2x$ [$\therefore$ ১ম রাশি $= 2x$]

বা, $x^2 + 1 = 2x + 2x$ বা, $x^2 + 1 = 4x$

বা, $\dfrac{x^2 + 1}{x} = \dfrac{4x}{x}$ [উভয়পক্ষকে 'x' দ্বারা ভাগ করে]

বা, $\dfrac{x^2}{x} + \dfrac{1}{x} = 4$

$\therefore x + \dfrac{1}{x} = 4$

বামপক্ষ $= x^4 + \dfrac{1}{x^4} = (x^2)^2 + \left(\dfrac{1}{x^2}\right)^2$

$= \left(x^2 + \dfrac{1}{x^2}\right)^2 - 2 \cdot x^2 \cdot \dfrac{1}{x^2} = \left\{\left(x + \dfrac{1}{x}\right)^2 - 2 \cdot x \cdot \dfrac{1}{x}\right\}^2 - 2$

$= \{(4)^2 - 2\}^2 - 2 = (16 - 2)^2 - 2$

$= (14)^2 - 2 = 196 - 2 = 194 =$ ডানপক্ষ

$\therefore x^4 + \dfrac{1}{x^4} = 194$ (প্রমাণিত)

(গ) ১ম রাশি $= x^2 - 2x + 1$

$= x^2 - 2 \cdot x \cdot 1 + 1^2 = (x - 1)^2 = (x - 1)(x - 1)$

২য় রাশি $= x^2 - 1 = x^2 - 1^2 = (x + 1)(x - 1)$

৩য় রাশি $= x^2 - 5x + 4 = x^2 - 4x - x + 4$

$= x(x - 4) - 1(x - 4)$

$= (x - 4)(x - 1)$

এখানে, প্রথম, দ্বিতীয় ও তৃতীয় রাশির সাধারণ উৎপাদক $(x - 1)$ নির্ণেয়
ল.সা.গু. $= (x - 1)$

৩। $x + \dfrac{1}{x} = 4$ এবং $x > 1$। ★

(ক) $by^2 - (b^2 + 1)y + b$ কে উৎপাদকে বিশ্লেষণ কর। ২

(খ) প্রমাণ কর যে, $x^3 - \dfrac{1}{x^3} = 30\sqrt{3}$। ৪

(গ) $x^5 + \dfrac{1}{x^5}$ এর মান নির্ণয় কর। ৪

সমাধান :

(ক) লেখা আছে, $by^2 - (b^2 + 1)y + b = by^2 - b^2 y - y + b$

$= by(y - b) - 1(y - b) = (y - b)(by - 1)$

(খ) লেখা আছে, $x + \dfrac{1}{x} = 4$

এখন, $\left(x - \dfrac{1}{x}\right)^2 = \left(x + \dfrac{1}{x}\right)^2 - 4 \cdot x \cdot \dfrac{1}{x} = (4)^2 - 4 = 16 - 4 = 12$

$\therefore x - \dfrac{1}{x} = \sqrt{12} = \sqrt{4 \times 3} = 2\sqrt{3}$

বামপক্ষ $= x^3 - \dfrac{1}{x^3} = \left(x - \dfrac{1}{x}\right)^3 + 3 \cdot x \cdot \dfrac{1}{x}\left(x - \dfrac{1}{x}\right)$

$= (2\sqrt{3})^3 + 3 \cdot 2\sqrt{3} \quad [\because x - \dfrac{1}{x} = 2\sqrt{3}]$

$= 2^3 \cdot (\sqrt{3})^3 + 6\sqrt{3}$

$= 8 \cdot 3\sqrt{3} + 6\sqrt{3}$

$= 30\sqrt{3} =$ ডানপক্ষ

$\therefore x^3 - \dfrac{1}{x^3} = 30\sqrt{3}$ (প্রমাণিত)

(গ) লেখা আছে, $x + \dfrac{1}{x} = 4$

প্রদত্ত রাশি $= x^5 + \dfrac{1}{x^5} = \left(x^3 + \dfrac{1}{x^3}\right)\left(x^2 + \dfrac{1}{x^2}\right) - \left(x + \dfrac{1}{x}\right)$

$= \left\{\left(x + \dfrac{1}{x}\right)^3 - 3 \cdot x \cdot \dfrac{1}{x}\left(x + \dfrac{1}{x}\right)\right\}\left\{\left(x + \dfrac{1}{x}\right)^2 - 2 \cdot x \cdot \dfrac{1}{x}\right\} - \left(x + \dfrac{1}{x}\right)$

$= [(4)^3 - 3 \cdot 4][(4)^2 - 2] - 4 \quad [\because x + \dfrac{1}{x} = 4]$

$= (64 - 12)(16 - 2) - 4 = (52 \times 14) - 4 = 728 - 4 = 724$

নির্ণেয় মান 724

৪। $A = x + \dfrac{1}{x},\ B = 18(x^2 - 3x),\ C = 24(x^2 - 9),\ D = 32(x^2 - 4x + 3)$
চারটি বীজগাণিতিক রাশি। ★ [চট্টগ্রাম বোর্ড-২০১৬]

(ক) $(xy + yz)$ এর ঘন নির্ণয় কর। ২

(খ) $A = \sqrt{6}$ হলে প্রমাণ কর যে, $\dfrac{x^6 - 1}{x^3} = 5\sqrt{2}$। ৪

(গ) B, C এবং D এর ল.সা.গু. নির্ণয় কর। ৪

সমাধান : (ক) প্রদত্ত রাশি, $(xy + yz)$

রাশিটির ঘন $= (xy + yz)^3$

$= (xy)^3 + 3(xy)^2 yz + 3 \cdot xy \cdot (yz)^2 + (yz)^3$

$= x^3 y^3 + 3x^2 y^3 z + 3xy^3 z^2 + y^3 z^3$

(খ) লেখা আছে, $A = x + \dfrac{1}{x}$

শর্তানুসারে, $x + \dfrac{1}{x} = \sqrt{6} \quad [\because A = \sqrt{6}]$

এখন, $\left(x - \dfrac{1}{x}\right)^2 = \left(x + \dfrac{1}{x}\right)^2 - 4 \cdot x \cdot \dfrac{1}{x} = (\sqrt{6})^2 - 4 = 6 - 4 = 2$

$\therefore x - \dfrac{1}{x} = \sqrt{2}$

বামপক্ষ $= \dfrac{x^6 - 1}{x^3} = \dfrac{x^6}{x^3} - \dfrac{1}{x^3} = x^3 - \dfrac{1}{x^3}$

$= \left(x - \dfrac{1}{x}\right)^3 + 3 \cdot x \cdot \dfrac{1}{x}\left(x - \dfrac{1}{x}\right)$

$= (\sqrt{2})^3 + 3 \cdot \sqrt{2} = 2\sqrt{2} + 3\sqrt{2} = 5\sqrt{2} =$ ডানপক্ষ

$\therefore \dfrac{x^6 - 1}{x^3} = 5\sqrt{2}$ (প্রমাণিত)

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