

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

$$\begin{aligned}\text{প্রদত্ত রূপে} &= x^4 + \frac{1}{x^4} = (x^2)^2 + \left(\frac{1}{x^2}\right)^2 \\&= \left(x^2 + \frac{1}{x^2}\right)^2 - 2x^2 \cdot \frac{1}{x^2} = \left\{ \left(x + \frac{1}{x}\right)^2 - 2x \cdot \frac{1}{x} \right\}^2 - 2 \\&= \left\{ \left(\frac{3}{2}\right)^2 - 2 \right\}^2 - 2 \quad \because x + \frac{1}{x} = \frac{3}{2} \\&= \left(\frac{9}{4} - 2\right)^2 - 2 = \left(\frac{9-8}{4}\right)^2 - 2 \\&= \left(\frac{1}{4}\right)^2 - 2 = \frac{1}{16} - 2 = \frac{1-32}{16} = -\frac{31}{16}\end{aligned}$$

নির্ণেয় মান $-\frac{31}{16}$

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

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

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

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

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

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

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।

★ ★ [বিজ্ঞানী বোর্ড-২০১৮]

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

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

(গ) রাশি তিনটির গ.সা.পু. নির্ণয় কর।

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

এখন, $\left(x + \frac{1}{x}\right)^2 = \left(x - \frac{1}{x}\right)^2 + 4x \cdot \frac{1}{x}$
 $= (3)^2 + 4 = 9 + 4 = 13$

(খ) প্রদত্ত, $x^2 - 2x + 1 = 2x \quad \therefore$ ১ম রাশি $= 2x$

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

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

বা, $\frac{x^2}{x} + \frac{1}{x} = 4$

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

$$\begin{aligned}\text{বামপক্ষ} &= x^4 + \frac{1}{x^4} = (x^2)^2 + \left(\frac{1}{x^2}\right)^2 \\&= \left(x^2 + \frac{1}{x^2}\right)^2 - 2x^2 \cdot \frac{1}{x^2} = \left\{ \left(x + \frac{1}{x}\right)^2 - 2x \cdot \frac{1}{x} \right\}^2 - 2 \\&= \{(4)^2 - 2\}^2 - 2 = (16 - 2)^2 - 2 \\&= (14)^2 - 2 = 196 - 2 = 194 = \text{ডানপক্ষ}\end{aligned}$$

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

(গ) ১ম রাশি $= x^2 - 2x + 1$

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

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 গ.সা.পু. $= (x - 1)$

৩. $x + \frac{1}{x} = 4$ এবং $x > 1$: ★

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

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

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

সমাধান :

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

(খ) দেওয়া আছে, $x + \frac{1}{x} = 4$

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

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

$$\begin{aligned}\text{বামপক্ষ} &= x^3 - \frac{1}{x^3} = \left(x - \frac{1}{x}\right)^3 + 3x \cdot \frac{1}{x} \left(x - \frac{1}{x}\right) \\&= (2\sqrt{3})^3 + 3 \cdot 2\sqrt{3} \quad \because x - \frac{1}{x} = 2\sqrt{3} \\&= 2^3 \cdot (\sqrt{3})^3 + 6\sqrt{3} \\&= 8 \cdot 3\sqrt{3} + 6\sqrt{3} \\&= 30\sqrt{3} = \text{ডানপক্ষ}\end{aligned}$$

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

(গ) দেওয়া আছে, $x + \frac{1}{x} = 4$

$$\begin{aligned}\text{প্রদত্ত রাশি} &= x^4 + \frac{1}{x^4} = \left(x^2 + \frac{1}{x^2}\right) \left(x^2 + \frac{1}{x^2}\right) - \left(x + \frac{1}{x}\right) \\&= \left\{ \left(x + \frac{1}{x}\right)^2 - 2x \cdot \frac{1}{x} \right\} \left\{ \left(x + \frac{1}{x}\right)^2 - 2x \cdot \frac{1}{x} \right\} - \left(x + \frac{1}{x}\right) \\&= \{(4)^2 - 2\} \{(4)^2 - 2\} - 4 \quad \because x + \frac{1}{x} = 4 \\&= (16 - 2)(16 - 2) - 4 = (14 \times 14) - 4 = 196 - 4 = 192 \\&\text{নির্ণেয় মান } 192\end{aligned}$$

৪. $A = x + \frac{1}{x}$, $B = 18(x^2 - 3x)$, $C = 24(x^2 - 9)$, $D = 32(x^2 - 4x + 3)$

চারটি বীজগণিতীয় রাশি : ★

[বিজ্ঞান বোর্ড-২০১৮]

(ক) $(xy + yx)$ এর ঘন নির্ণয় কর।

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

(গ) B, C এবং D এর গ.সা.পু. নির্ণয় কর।

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

$$\begin{aligned}\text{রাশিটির ঘন} &= (xy + yx)^3 \\&= (xy)^3 + 3(xy)^2yx + 3xy(yx)^2 + (yx)^3 \\&= x^3y^3 + 3x^2y^2x + 3xy^3x^2 + y^3x^3\end{aligned}$$

(খ) দেওয়া আছে, $A = x + \frac{1}{x}$

পার্শ্বকূলে, $x + \frac{1}{x} = \sqrt{6} \quad \because A = \sqrt{6}$

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

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

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

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

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

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

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