

এস এস সি গণিত (আবশ্যিক)

অধ্যায়-৩: বীজগণিতিক রাশি

উদাহরণ ১ $A = x + y + z$, $B = x^2 - \sqrt{3} + 1$ এবং $C = x^2 + \frac{1}{x}$

উদ্দেশ্য: দুটি বা ততোধিক রাশি

- ক. প্রদান কর যে, $x^2 + y^2 + z^2 - 3xyz$ যখন $A = 0$,
 খ. $B = 0$ হলে $(x^2 + \frac{1}{x}) + (x^2 + \frac{1}{x})$ এর মান নির্ণয় কর।
 গ. প্রদান কর যে, $x = \frac{2 + \sqrt{3}}{2}$, যখন $C = 18$.

১. ক. প্রদানের সমাধান

সেহেতু যখন, $A = x + y + z = 0$
 $\therefore x + y + z = 0$
 $\Rightarrow x + y = -z$
 যে, $(x + y)^2 = (-z)^2$
 $\Rightarrow x^2 + y^2 + 3xy = -z^2$
 $\Rightarrow x^2 + y^2 + z^2 + 3xy = 0$
 $\Rightarrow x^2 + y^2 + z^2 - 3xyz = 0$
 $\therefore x^2 + y^2 + z^2 = 3xyz$ (প্রমাণিত)

খ. প্রদানে, $B = x^2 - \sqrt{3} + 1$ এবং $B = 0$

$\therefore x^2 - \sqrt{3} + 1 = 0$
 $\Rightarrow x^2 + 1 = \sqrt{3}x$
 $\Rightarrow x + \frac{1}{x} = \sqrt{3}$

প্রদান রাশি $= (x + \frac{1}{x}) + (x^2 + \frac{1}{x^2})$
 $= \left\{ (x + \frac{1}{x})^2 - 3x \cdot \frac{1}{x} \left(x + \frac{1}{x} \right) \right\} + \left\{ (x + \frac{1}{x})^2 - 2x \cdot \frac{1}{x} \right\}$
 $= \left\{ (\sqrt{3})^2 - 3\sqrt{3} \right\} + \left\{ (\sqrt{3})^2 - 2 \right\}$
 $= (3\sqrt{3} - 3\sqrt{3}) + (3 - 2) = 0 + 1 = 1$ (Ans.)

গ. প্রদানে, $C = x^2 + \frac{1}{x}$ এবং $C = 18$

$\therefore x^2 + \frac{1}{x} = 18$
 $\Rightarrow x^3 + 1 = 18x^2$
 $\Rightarrow x^3 - 18x^2 + 1 = 0$
 $\Rightarrow x^3 - 18x^2 + 81 - 80 = 0$
 $\Rightarrow (x^3 - 9x^2) - 9x^2 + 81 - 80 = 0$
 $\Rightarrow (x^3 - 9x^2) - 9x^2 + (4\sqrt{3})^2 = 0$
 $\Rightarrow (x^3 - 9x^2) - 9x^2 + 4\sqrt{3}$
 $\Rightarrow x^3 - 9x^2 - 9x^2 + 4\sqrt{3}$
 $\Rightarrow x^3 - \frac{72}{8} - \frac{32\sqrt{3}}{8} - \frac{72 + 32\sqrt{3}}{8} - \frac{27 + 27\sqrt{3} + 45 - 5\sqrt{3}}{8}$
 $\Rightarrow x^3 - \frac{2^3 + 2 \cdot 2^2 \cdot \sqrt{3} + 2 \cdot 2 \cdot (\sqrt{3})^2 + (\sqrt{3})^3}{8}$
 $\Rightarrow x^3 - \frac{(2 + \sqrt{3})^3}{8}$
 $\therefore x = \frac{2 + \sqrt{3}}{2}$ (প্রমাণিত)

উদাহরণ ২ x এবং $\frac{1}{x}$ এর পূর্ণাঙ্কক বিশ্লিষ্ট রাশির সূত্রটি ১.

উদ্দেশ্য: দুটি বা ততোধিক রাশি

- ক. $x - \frac{1}{x}$ এর মান নির্ণয় কর।
 খ. সেহেতু যে, $\frac{x^2 + 1}{x} = 12$
 গ. $x^4 - 7x^2 + 1 = 0$ এর সমাধান খুঁজি কর।

১. খ. সেহেতু সমাধান

ক. x এর পূর্ণাঙ্কক বিশ্লিষ্ট রাশি $\frac{1}{x}$

প্রদানকারে, $x + \frac{1}{x} = 3$

যে, $(x + \frac{1}{x})^2 = 9$ [বর্গ করে]
 $\Rightarrow (x - \frac{1}{x})^2 + 4x \cdot \frac{1}{x} = 9$
 $\Rightarrow (x - \frac{1}{x})^2 + 4 = 9$
 $\Rightarrow (x - \frac{1}{x})^2 = 5$
 $\therefore x - \frac{1}{x} = \pm\sqrt{5}$ (Ans.)

খ. 'খ' হতে রাশি $x + \frac{1}{x} = 3$

সহকারে $= \frac{x^2 + 1}{x} = \frac{x^2}{x} + \frac{1}{x} = x + \frac{1}{x}$
 $= (x + \frac{1}{x})^2 - 3x \cdot \frac{1}{x} \left(x + \frac{1}{x} \right)$
 $= 3^2 - 3 \cdot 3 \cdot 3$ [মান বসিয়ে]
 $= 9 - 27 = -18 =$ উত্তর
 $\therefore \frac{x^2 + 1}{x} = -18$ (সেহেতু হলে)

গ. $x^4 - 7x^2 + 1 = 0$

$\Rightarrow x^4 + 1 = 7x^2$
 $\Rightarrow x^4 - 7x^2 + 1 = 0$
 $\Rightarrow x^4 - 7x^2 + \frac{49}{4} - \frac{49}{4} + 1 = 0$
 $\Rightarrow x^4 - 7x^2 + \frac{49}{4} - \frac{45}{4} = 0$
 $\Rightarrow x^4 - 7x^2 + \frac{49}{4} = \frac{45}{4}$
 $\Rightarrow (x^2 + \frac{7}{2})^2 - 2x \cdot \frac{7}{2} = \frac{45}{4}$
 $\Rightarrow (x^2 + \frac{7}{2})^2 - 7x + \frac{49}{4} = \frac{45}{4}$
 $\Rightarrow (x^2 + \frac{7}{2})^2 = 9$
 $\therefore x^2 + \frac{7}{2} = \pm 3$
 $\therefore x^2 + \frac{7}{2} = 3$ এর জন্য $x^2 - 2x^2 + 1 = 0$ সমীকরণটি সত্য।

উদাহরণ ৩ $a^2 + b^2 = 3ab$ যেখানে $a > b$

উদ্দেশ্য: দুটি বা ততোধিক রাশি

- ক. $\frac{a^2 + b^2}{a^2 - b^2} =$ কত?
 খ. $\frac{a^2 + b^2}{a^2 - b^2}$ এর মান নির্ণয় কর।
 গ. প্রদান কর যে, $\frac{a^2}{b^2} - \frac{b^2}{a^2} = 2\sqrt{3}$

১. গ. প্রদানের সমাধান

সেহেতু যখন, $a^2 + b^2 = 3ab$ যেখানে, $a > b$
 $\Rightarrow \frac{a^2 + b^2}{ab} = \frac{3ab}{ab}$ [উভয়পক্ষে ab দ্বারা গুণ করে]
 $\Rightarrow \frac{a^2}{ab} + \frac{b^2}{ab} = 3$
 $\Rightarrow \frac{a}{b} + \frac{b}{a} = 3$ (Ans.)

খ. 'খ' হতে রাশি $\frac{a^2}{b^2} + \frac{b^2}{a^2} = 3$

$\therefore \frac{a^2}{b^2} + \frac{b^2}{a^2} = \frac{a^4}{b^4} + \frac{b^4}{a^4} = \frac{a^4}{b^4} + \frac{b^4}{a^4}$

গ. সেহেতু যখন, $2a + \frac{b}{a} = 5$

$\therefore 8a^2 + \frac{b^2}{a} = (2a)^2 + \left(\frac{b}{a}\right)^2 = \left(2a + \frac{b}{a}\right)^2 - 3 \cdot 2a \cdot \frac{b}{a} \left(2a + \frac{b}{a}\right)$

$= \left(\frac{8}{9}\right)^2 + \left(\frac{2}{9}\right)^2 = \left(\frac{8}{9} + \frac{2}{9}\right)^2 - 2 \cdot \frac{8}{9} \cdot \frac{2}{9}$
 $= (3)^2 - 2 = 9 - 2 = 7$ (Ans.)

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Peipei Pang



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