

# এস এস সি গণিত (আবশ্যিক)

## অধ্যায়-৩: বীজগাণিতিক রাশি

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

(কোনকিছু জানা থাকলে প্রদত্ত রাশি)

ক. প্রদত্ত কর যে,  $x^2 + y^2 + z^2 - 3xyz$  যখন  $A = 0$ ,

খ.  $B = 0$  হলে  $\left(x^2 + \frac{1}{x}\right) + \left(x^2 + \frac{1}{x}\right)$  এর মান নির্ণয় কর।

গ. প্রদত্ত কর যে,  $x = \frac{2 + \sqrt{3}}{2}$ , যখন  $C = 18$ ,

৩. দুই প্রকারের সমাধান

**ক.** দেওয়া আছে,  $A = x + y + z$  এবং  $A = 0$

$$\therefore x + y + z = 0$$

$$\text{অ. } x + y = -z$$

$$\text{ক. } (x + y)^2 = (-z)^2$$

$$\text{ক. } x^2 + y^2 + 3xy(x + y) = -z^2$$

$$\text{ক. } x^2 + y^2 + z^2 + 3xy(-z) = 0$$

$$\text{ক. } x^2 + y^2 + z^2 - 3xyz = 0$$

$$\therefore x^2 + y^2 + z^2 = 3xyz \text{ (প্রমাণিত)}$$

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

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

$$\text{ক. } x^2 + 1 = \sqrt{3}x$$

$$\text{ক. } x + \frac{1}{x} = \sqrt{3}$$

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

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

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

$$= (3\sqrt{3} - 3\sqrt{3}) + (3 - 2) = 0 + 1 = 1 \text{ (Ans.)}$$

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

$$\therefore x^2 + \frac{1}{x} = 18$$

$$\text{ক. } x^2 + 1 = 18x$$

$$\text{ক. } x^2 - 18x + 1 = 0$$

$$\therefore x^2 - 18x + 81 - 80 = 0$$

$$\text{ক. } (x^2)^2 - 2x^2 \cdot 9 + 9^2 = 80$$

$$\text{ক. } (x^2 - 9)^2 = (4\sqrt{5})^2$$

$$\text{ক. } x^2 - 9 = 4\sqrt{5}$$

$$\text{ক. } x^2 - 9 = 4\sqrt{5}$$

$$\text{ক. } x^2 = \frac{72}{8} + \frac{32\sqrt{5}}{8} = \frac{72 + 32\sqrt{5}}{8} = \frac{27 + 27\sqrt{5} + 45 + 5\sqrt{5}}{8}$$

$$\text{ক. } x^2 = \frac{3^2 + 2 \cdot 3 \cdot \sqrt{5} + 3 \cdot 3 \cdot \sqrt{5}^2 + 5\sqrt{5}^2}{8}$$

$$\text{ক. } x^2 = \frac{(3 + \sqrt{5})^2}{8}$$

$$\text{ক. } x^2 = \left(\frac{3 + \sqrt{5}}{2}\right)^2$$

$$\therefore x = \frac{3 + \sqrt{5}}{2} \text{ (প্রমাণিত)}$$

**উদাহরণ ২:**  $x$  এবং  $x$  এর পূর্ণাঙ্কক বিশ্লিষ্ট রাশির সূত্রটি ৩.

(কোনকিছু জানা থাকলে প্রদত্ত রাশি)

ক.  $x = \frac{1}{x}$  এর মান নির্ণয় কর।

খ. দেওয়া আছে,  $\frac{x^2 + 1}{x} = 12$

গ.  $x^2 - 7x^2 + 1 = 0$  এর সমাধান খুঁজি কর।

৩. দুই প্রকারের সমাধান

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

প্রদত্তভাবে,  $x + \frac{1}{x} = 3$

$$\text{ক. } \left(x + \frac{1}{x}\right)^2 = 9 \text{ [বর্গ করে]}$$

$$\text{ক. } \left(x - \frac{1}{x}\right)^2 + 4x \cdot \frac{1}{x} = 9$$

$$\text{ক. } \left(x - \frac{1}{x}\right)^2 + 4 = 9$$

$$\text{ক. } \left(x - \frac{1}{x}\right)^2 = 5$$

$$\therefore x - \frac{1}{x} = \pm\sqrt{5} \text{ (Ans.)}$$

**খ.** 'ক' হতে পাই,  $x + \frac{1}{x} = 3$

$$\text{বিশেষক} = \frac{x^2 + 1}{x} = \frac{x^2}{x} + \frac{1}{x} = x + \frac{1}{x}$$

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

$$= 3^2 - 3 \cdot 1 \cdot 3 \text{ [মান বসিয়ে]}$$

$$= 27 - 9$$

$$= 18 = \text{উৎপাদক}$$

$$\therefore \frac{x^2 + 1}{x} = 18 \text{ (দেখানোর মতো)}$$

**গ.**  $x^2 - 7x^2 + 1 = 0$

$$\text{ক. } x^2 + 1 = 7x^2$$

$$\text{ক. } \frac{x^2 + 1}{x^2} = 7$$

$$\text{ক. } \frac{x^2}{x^2} + \frac{1}{x^2} = 7$$

$$\text{ক. } x^2 + \frac{1}{x^2} = 7$$

$$\text{ক. } \left(x + \frac{1}{x}\right)^2 - 2x \cdot \frac{1}{x} = 7$$

$$\text{ক. } \left(x + \frac{1}{x}\right)^2 = 7 + 2$$

$$\text{ক. } \left(x + \frac{1}{x}\right)^2 = 9$$

$$\therefore x + \frac{1}{x} = 3$$

$$\therefore x + \frac{1}{x} = 3 \text{ এর জন্য } x^2 - 7x^2 + 1 = 0 \text{ সমীকরণটি সত্য।}$$

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

(কোনকিছু জানা থাকলে প্রদত্ত রাশি)

ক.  $\frac{a}{b} + \frac{b}{a} =$  কত?

খ.  $\frac{a^2 + b^2}{a^2 b^2}$  এর মান নির্ণয় কর।

গ. প্রদত্ত কর যে,  $\frac{a^2}{b^2} - \frac{b^2}{a^2} = 4\sqrt{3}$

৩. দুই প্রকারের সমাধান

**ক.** দেওয়া আছে,  $a^2 + b^2 = 3ab$  যেখানে,  $a > b$

$$\text{ক. } \frac{a^2 + b^2}{ab} = \frac{3ab}{ab} \text{ [উভয়পক্ষে } ab \text{ দ্বারা ভাগ করে]}$$

$$\text{ক. } \frac{a^2}{ab} + \frac{b^2}{ab} = 3$$

$$\text{ক. } \frac{a}{b} + \frac{b}{a} = 3$$

$$\therefore \frac{a}{b} + \frac{b}{a} = 3 \text{ (Ans.)}$$

**খ.** 'ক' হতে প্রাপ্ত,  $\frac{a}{b} + \frac{b}{a} = 3$

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

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

$$= (3)^2 - 2 = 9 - 2 = 7 \text{ (Ans.)}$$

**গ.** দেওয়া আছে,  $2a + \frac{2}{a} = 5$

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

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**Ensheng Dong**



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