

(শ) দেওয়া আছে, $A = \frac{(a-b)^2 + 2ab}{(a-b)(a^2 + 2ab + b^2)}$;

$B = \frac{a^3 + b^3}{(a+b)^3(a^2 - b^2)}$ এবং $C = \frac{a^3 - b^3}{a^4 - b^4}$

কামনা কর $A + B \times C$

$= \frac{(a-b)^2 + 2ab}{(a-b)(a^2 + 2ab + b^2)} \times \frac{a^3 + b^3}{(a+b)^3(a^2 - b^2)} \times \frac{a^3 - b^3}{a^4 - b^4}$

$= \frac{a^3 + b^3}{(a-b)(a+b)^3} \times \frac{(a+b)(a^2 - ab + b^2)}{(a+b)^3(a-b)} \times \frac{(a-b)(a^2 + ab + b^2)}{(a^2 + b^2)(a+b)(a-b)}$

[যে-এক কণা বাতায় করে]

$= \frac{(a^3 + b^3)}{(a-b)(a+b)^3} \times \frac{(a+b)^4(a-b)}{(a+b)(a^2 - ab + b^2)} \times \frac{(a-b)(a^2 + ab + b^2)}{(a^2 + b^2)(a+b)(a-b)}$

$= \frac{a^3 + ab + b^3}{a^2 - ab + b^2} = 1$ (কামনা কর)

$\therefore A + B \times C = \frac{a^3 + ab + b^3}{a^2 - ab + b^2}$ (প্রমাণিত)

৩। $A = \frac{(x-y)^2 + 4xy}{a^2 - b^2 - 3ab(a-b)}$, $B = \frac{x^3 + y^3 + 3xy(x+y)}{(a+b)^2 - 4ab}$

$C = \frac{2x}{x^2 + 6x + 5}$ এবং $D = \frac{2y}{x^2 + 125}$ চারটি বীজগণিতিক হাবি। ★

[মিলাজপুর বোর্ড-২০১৮]

(ক) $\left(1 + \frac{2}{x}\right)$ কে $\left(1 - \frac{4}{x}\right)$ দ্বারা ভাগ কর।

(খ) সরল কর : $A + B \times \frac{ab - b^2}{xy - y^2}$

(গ) $C \div D$ কে সমহরহিণিটি ভগ্নাংশে প্রকাশ কর।

সমাধান : (ক) $\left(1 + \frac{2}{x}\right) \div \left(1 - \frac{4}{x}\right) = \frac{x+2}{x} \div \frac{x-4}{x}$
 $= \frac{x+2}{x} \times \frac{x}{x-4} = \frac{x+2}{x-4}$

(খ) দেওয়া আছে, $A = \frac{(x-y)^2 + 4xy}{a^2 - b^2 - 3ab(a-b)} = \frac{(x+y)^2}{(a-b)^2}$

$B = \frac{x^3 + y^3 + 3xy(x+y)}{(a+b)^2 - 4ab} = \frac{(x+y)^3}{(a-b)^2}$

এখন, $A + B \times \frac{ab - b^2}{xy - y^2} = \frac{(x+y)^2}{(a-b)^2} + \frac{(x+y)^3}{(a-b)^2} \times \frac{b(a-b)}{y(x-y)}$

$= \frac{(x+y)^2}{(a-b)^2} \times \frac{(a-b)^2}{(x+y)^2} \times \frac{b(a-b)}{y(x-y)} = \frac{b(a-b)}{y(x-y)}$

$= \frac{b}{y(x+y)(x-y)} = \frac{b}{y(x^2 - y^2)}$

(গ) দেওয়া আছে, $C = \frac{2x}{x^2 + 6x + 5}$ এবং $D = \frac{2y}{x^2 + 125}$

এখন, C ভগ্নাংশের হর $= x^2 + 6x + 5 = x^2 + 5x + x + 5$
 $= x(x+5) + 1(x+5) = (x+5)(x+1)$

এবং D ভগ্নাংশের হর $= x^2 + 125 = x^2 + 5x + 5x + 25$
 $= (x+5)(x^2 - 5x + 25)$

\therefore হরদুটির ল.সা.প. $= (x+5)(x+5)(x^2 - 5x + 25)$

এখন, $C = \frac{2x}{x^2 + 6x + 5} = \frac{2x}{(x+5)(x+1)}$

$= \frac{2x}{(x+5)(x+1)} \times \frac{(x^2 - 5x + 25)}{(x^2 - 5x + 25)}$

$= \frac{2x(x^2 - 5x + 25)}{(x+1)(x+5)(x^2 - 5x + 25)}$

এবং $D = \frac{2y}{x^2 + 125} = \frac{2y}{(x+5)(x^2 - 5x + 25)}$

$= \frac{2y}{(x+5)(x^2 - 5x + 25)} \times \frac{x+1}{x+1}$
 $= \frac{2y(x+1)}{(x+1)(x+5)(x^2 - 5x + 25)}$

৪। $A = \frac{(p-q)^2 + 4pq}{p^2 - q^2 - 3pq(p-q)}$; $B = \frac{p^2 + q^2 + 3pq(p+q)}{(p+q)^2 - 4pq}$;

$x^3 + y^3$ এবং $D = x^3 - y^3$ ★ ★

[মিলাজপুর বোর্ড-২০১৮]

(ক) লিখিত আকারে প্রকাশ কর : $\frac{x^2 + 2x - 15}{x^2 - 9}$

(খ) সরল কর : $A + B$

(গ) $\frac{x}{C}$ এবং $\frac{y}{D}$ কে সমহরহিণিটি ভগ্নাংশে প্রকাশ কর।

সমাধান : (ক) প্রদত্ত ভগ্নাংশ $= \frac{x^2 + 2x - 15}{x^2 - 9} = \frac{x^2 + 5x - 3x - 15}{x^2 - 9}$

$= \frac{x(x+5) - 3(x+5)}{(x+3)(x-3)} = \frac{(x+5)(x-3)}{(x+3)(x-3)} = \frac{x+5}{x-3}$

(খ) দেওয়া আছে, $A = \frac{(p-q)^2 + 4pq}{p^2 - q^2 - 3pq(p-q)} = \frac{(p+q)^2}{(p-q)^2}$

$B = \frac{p^3 + q^3 + 3pq(p+q)}{(p+q)^2 - 4pq} = \frac{(p+q)^3}{(p-q)^2}$

প্রদত্ত হাবি $= A + B = \frac{(p+q)^2}{(p-q)^2} + \frac{(p+q)^3}{(p-q)^2}$

$= \frac{(p+q)^2}{(p-q)^2} \times \frac{(p+q)^2}{(p+q)^2} = \frac{1}{(p+q)(p-q)} = \frac{1}{p^2 - q^2}$

(গ) দেওয়া আছে, $C = x^3 + y^3$ এবং $D = x^3 - y^3$

এখন, $\frac{x}{C} = \frac{x}{x^3 + y^3}$ এবং $\frac{y}{D} = \frac{y}{x^3 - y^3}$

১ম ভগ্নাংশের হর $= x^3 + y^3$; ২য় ভগ্নাংশের হর $= x^3 - y^3$

\therefore হরদুটির ল.সা.প. $= (x^3 + y^3)(x^3 - y^3)$

এখন, $\frac{(x^3 + y^3)(x^3 - y^3)}{(x^3 + y^3)(x^3 - y^3)} = \frac{(x^3 + y^3)(x^3 - y^3)}{(x^3 + y^3)(x^3 - y^3)} = \frac{x^3 - y^3}{x^3 + y^3}$

$\therefore \frac{x}{C} = \frac{x}{x^3 + y^3} = \frac{x(x^3 - y^3)}{(x^3 + y^3)(x^3 - y^3)} = \frac{x^4 - xy^3}{x^6 - y^6}$

আবার, $\frac{(x^3 + y^3)(x^3 - y^3)}{(x^3 + y^3)(x^3 - y^3)} = \frac{(x^3 - y^3)(x^3 + y^3)}{(x^3 + y^3)(x^3 - y^3)} = \frac{x^3 - y^3}{x^3 + y^3}$

$\therefore \frac{y}{D} = \frac{y}{x^3 - y^3} = \frac{y(x^3 + y^3)}{(x^3 + y^3)(x^3 - y^3)} = \frac{xy^4 + y^4}{x^6 - y^6}$

৫। $A = \frac{3x}{x^2 + 3x - 4}$, $B = \frac{2x}{x^2 - 1}$, $C = \frac{x}{x^2 + 5x + 4}$, $D = 3a^2 + a - 10$,
 $E = a^2 + 8$ এবং $F = 2a^2 + 9a + 10$ চারটি বীজগণিতিক হাবি। ★

[মিলাজপুর বোর্ড-২০১৮]

(ক) $\frac{x^2 - 1}{x^3 + x^2 + x}$ কে লিখিত আকারে প্রকাশ কর।

(খ) সরল কর : $A + B$

(গ) $\frac{1}{C} \cdot \frac{1}{D} \cdot \frac{1}{E}$ কে সমহরহিণিটি ভগ্নাংশে প্রকাশ কর।

সমাধান : (ক) $\frac{x^2 - 1}{x^3 + x^2 + x} = \frac{(x-1)(x^2 + x + 1)}{x(x^2 + x + 1)} = \frac{x-1}{x}$

(খ) দেওয়া আছে, $A = \frac{3x}{x^2 + 3x - 4}$ এবং $B = \frac{2x}{x^2 - 1} + \frac{x}{x^2 + 5x + 4}$

এখন, $A + B = \frac{3x}{x^2 + 3x - 4} + \frac{2x}{x^2 - 1} + \frac{x}{x^2 + 5x + 4}$

$= \frac{3x}{x^2 + 4x - x - 4} + \frac{2x}{x^2 - 1} + \frac{x}{x^2 + 4x + x + 4}$

$= \frac{3x}{x(x+4) - 1(x+4)} + \frac{2x}{(x+1)(x-1)} + \frac{x}{x(x+4) + 1(x+4)}$

$= \frac{3x}{(x+4)(x-1)} + \frac{2x}{(x+1)(x-1)} + \frac{x}{(x+4)(x+1)}$
 $= \frac{3x(x+1) + 2x(x+4) + x(x-1)}{(x+4)(x+1)(x-1)}$
 $= \frac{3x^2 + 3x + 2x^2 + 8x + x^2 - x}{(x+4)(x+1)(x-1)}$
 $= \frac{6x^2 + 10x}{(x+4)(x+1)(x-1)}$
 $= \frac{2x(3x+5)}{(x+4)(x^2 - 1)}$

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Arturo Cuomo



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