

Frequently asked

Fixed patterns

coaching center

$$\frac{1}{\text{diff}}(f - l):$$

$$\frac{1}{2} - \frac{1}{3} = \frac{3-2}{2 \times 3} = \frac{\text{diff}}{\text{prod.}} = \frac{1}{2 \times 3} \rightarrow \frac{1}{2} - \frac{1}{3}$$

$$\frac{1}{5} - \frac{1}{7} = \frac{7-5}{5 \times 7} = \frac{\text{diff}}{\text{prod}} = \frac{2}{5 \times 7} \rightarrow \frac{1}{5} - \frac{1}{7}$$

$$\frac{1}{10} - \frac{1}{13} = \frac{13-10}{10 \times 13} = \frac{\text{diff}}{\text{prod}} = \frac{3}{10 \times 13} = \frac{1}{10} - \frac{1}{13}$$

$$\frac{5}{24} = \frac{5}{3 \times 8} = \frac{1}{3} - \frac{1}{8}$$

$$\frac{1}{12 \times 13} = \frac{1}{12} - \frac{1}{13}$$

$$\frac{2}{10 \times 12} = \frac{1}{10} - \frac{1}{12}$$

$$\frac{7}{100 \times 107} = \frac{1}{100} - \frac{1}{107}$$

$$\frac{1}{2} - \frac{1}{3} + \frac{1}{3} - \frac{1}{4} + \frac{1}{4} - \frac{1}{5} + \frac{1}{5} - \frac{1}{6} + \dots + \frac{1}{11} - \frac{1}{12} = \frac{1}{2} - \frac{1}{12} = \frac{5}{12}$$

$$\frac{1}{6} + \frac{1}{12} + \frac{1}{20} + \frac{1}{30} + \dots + \frac{1}{132}$$

$2 \times 3 \quad 3 \times 4 \quad 4 \times 5 \quad 5 \times 6 \quad \dots \quad 11 \times 12$

$$\frac{1}{1} \left[\frac{1}{2} - \frac{1}{12} \right] =$$

$$\frac{2}{15} + \frac{2}{35} + \frac{2}{63} + \frac{2}{99} = \left[\frac{1}{15^{\text{th}}} - \frac{1}{\text{last}} \right] = \frac{1}{3} - \frac{1}{11} = \frac{8}{3 \times 11}$$

$3 \times 5 \quad 5 \times 7 \quad 7 \times 9 \quad 9 \times 11$

$$\frac{2}{2} \times \left[\frac{2}{15} + \frac{2}{35} + \frac{2}{63} + \frac{2}{99} \right] = \frac{1}{2} \left[\frac{1}{3} - \frac{1}{11} \right] = \frac{1}{2} \times \frac{8}{11} = \frac{4}{11}$$

$\frac{1}{3} \times \frac{9}{20} = \frac{3}{20}$

$$\frac{1}{10} + \frac{1}{40} + \frac{1}{88} + \dots + \frac{1}{340} = \frac{1}{\text{diff}} [f - l] = \frac{1}{3} \left[\frac{1}{2} - \frac{1}{20} \right]$$

$2 \times 5 \quad 5 \times 8 \quad 8 \times 11 \quad \dots \quad 17 \times 20$

$$\begin{aligned} & \frac{2}{5 \times 9} + \frac{2}{9 \times 13} + \frac{2}{13 \times 17} + \frac{2}{17 \times 21} \\ &= 2 \left[\frac{1}{5 \times 9} + \frac{1}{9 \times 13} + \frac{1}{13 \times 17} + \frac{1}{17 \times 21} \right] \\ &= 2 \times \frac{1}{4} \times \left[\frac{1}{5} - \frac{1}{21} \right] \end{aligned}$$

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$$I. \frac{1}{30} + \frac{1}{42} + \frac{1}{56} + \frac{1}{72} + \frac{1}{90} + \frac{1}{110} = ?$$

$$5 \times 6$$

$$a) \sqrt{2} \frac{2}{27}$$

$$6 \times 7$$

$$b) \frac{1}{9}$$

$$7 \times 8$$

$$10 \times 11$$

$$c) \frac{5}{27}$$

$$d) \frac{6}{55}$$

$$\frac{1}{5} - \frac{1}{11} = \frac{6}{55}$$

coaching center

2 . Find the sum of the following:

जोड़फल ज्ञात कीजिए:

$$\frac{1}{9} + \frac{1}{6} + \frac{1}{12} + \frac{1}{20} + \frac{1}{30} + \frac{1}{42} + \frac{1}{56} + \frac{1}{72}$$

a) $\frac{1}{2}$ b) 0 c) $\frac{1}{9}$ d) $\frac{1}{2520}$

$$\frac{1}{9} + \frac{1}{2} - \frac{1}{9} = \frac{1}{2}$$

coaching center

3. $\left(\frac{1}{1 \cdot 4} + \frac{1}{4 \cdot 7} + \frac{1}{7 \cdot 10} + \frac{1}{10 \cdot 13} + \frac{1}{13 \cdot 16}\right)$ is equal to

a) $\frac{1}{3}$

~~b) $\frac{5}{16}$~~

c) $\frac{3}{8}$

d) $\frac{41}{7280}$

$$\frac{1}{3} \left[\frac{1}{1} - \frac{1}{16} \right]$$

$$= \frac{1}{3} \times \frac{15}{16} = \frac{5}{16}$$

coaching center

4. $\left(\frac{1}{3 \cdot 5} + \frac{1}{5 \cdot 7} + \frac{1}{7 \cdot 9} + \frac{1}{9 \cdot 11} + \frac{1}{11 \cdot 13} + \frac{1}{13 \cdot 15}\right)$ is equal to

a) $\frac{2}{45}$ b) $\frac{4}{45}$ c) $\frac{7}{45}$ d) $\frac{2}{15}$

$$\frac{1}{2} \left[\frac{1}{3} - \frac{1}{15} \right]$$
$$= \frac{1}{2} \times \frac{4}{15}$$

coaching center

5. What is the value of $\frac{1}{3 \times 7} + \frac{1}{7 \times 11} + \frac{1}{11 \times 15} + \dots + \frac{1}{899 \times 903}$?

$\frac{1}{3 \times 7} + \frac{1}{7 \times 11} + \frac{1}{11 \times 15} + \dots + \frac{1}{899 \times 903}$ का मान क्या है?

4 ← a) $\frac{21}{509}$ b) $\frac{18}{403}$ ~~c) $\frac{25}{301}$~~ d) $\frac{29}{31}$

$$\frac{1}{4} \times \left[\frac{1}{3} - \frac{1}{903} \right]$$
$$= \frac{1}{4} \times \frac{3 \times 25 - 1}{3 \times 903}$$

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coaching center

6. Which of the following statement(s) is/are TRUE?

निम्नलिखित में से कौन सा/से कथन सत्य है/हैं?

~~I~~ $\frac{1}{1 \times 3} + \frac{1}{3 \times 5} + \frac{1}{5 \times 7} + \dots + \frac{1}{11 \times 13} = \frac{12}{13}$

2 II $\frac{1}{1 \times 2} + \frac{1}{2 \times 3} + \frac{1}{3 \times 4} + \dots + \frac{1}{12 \times 13} = \frac{12}{13}$

a) Only I

b) Only II

c) Both I and II

d) Neither I nor II

$\frac{1}{2} \left[1 - \frac{1}{13} \right] = \frac{1}{2} \times \frac{12}{13}$

$1 - \frac{1}{13} = \frac{12}{13}$

coaching center

7. If $A = \frac{1}{1 \times 2} + \frac{1}{1 \times 4} + \frac{1}{2 \times 3} + \frac{1}{4 \times 7} + \frac{1}{3 \times 4} + \frac{1}{7 \times 10} \dots$ upto 20 terms, then what is the value of A?

यदि $A = \frac{1}{1 \times 2} + \frac{1}{1 \times 4} + \frac{1}{2 \times 3} + \frac{1}{4 \times 7} + \frac{1}{3 \times 4} + \frac{1}{7 \times 10} \dots$ 20 पदों तक हो, तो A का मान क्या है?

a) $\frac{379}{308}$ b) $\frac{171}{140}$ c) $\frac{379}{310}$ ~~d) $\frac{420}{341}$~~

$$\left(1 - \frac{1}{11}\right) + \frac{1}{3} \left[1 - \frac{1}{31}\right]$$

$$= \frac{10}{11} + \frac{1}{3} \times \frac{30}{31} = \frac{10 \times 42}{11 \times 31}$$

$$\rightarrow \frac{420}{341}$$

10 terms = $\frac{1}{10 \times 11}$

10 terms = $\frac{1}{28 \times 31}$

(1+27)

8. If $a = \text{sum of the first } \underline{20} \text{ terms of } \frac{1}{4 \times 5} + \frac{1}{5 \times 6} + \frac{1}{6 \times 7} + \dots$, and $b = \text{sum of the first } \underline{22} \text{ terms of } \frac{1}{3 \times 4} + \frac{1}{4 \times 5} + \frac{1}{5 \times 6} + \frac{1}{6 \times 7} + \dots$, then the value of $(ab)^{-1}$ is:

यदि $a = \frac{1}{4 \times 5} + \frac{1}{5 \times 6} + \frac{1}{6 \times 7} + \dots$ के पहले 20 पदों का योग है तथा $b = \frac{1}{4 \times 3} + \frac{1}{4 \times 5} + \frac{1}{5 \times 6} + \frac{1}{6 \times 7} + \dots$ के पहले 22 पदों का योग है, तो $(ab)^{-1}$ का मान कितना है?

- a) $22 \frac{3}{11}$ b) $19 \frac{4}{11}$ c) $25 \frac{3}{11}$ ~~d) $16 \frac{4}{11}$~~

$$20^{\text{th}} = \frac{1}{23 \times 24}$$

$$22^{\text{nd}} = \frac{1}{24 \times 25}$$

$$\frac{6}{6} \times \frac{1}{4} - \frac{1}{24} = \frac{5}{24} = a$$

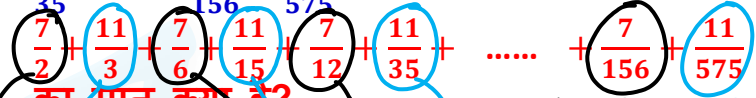
$$\frac{1}{3} - \frac{1}{25} = \frac{23}{75} = b$$

$$16 \frac{4}{11} = \frac{180}{11} = \frac{12}{5} \times \frac{15}{22}$$

$$\frac{1}{ab}$$

9. What is the value of $\frac{7}{2} + \frac{11}{3} + \frac{7}{6} + \frac{11}{15} + \frac{7}{12} +$

$\frac{11}{35} + \dots + \frac{7}{156} + \frac{11}{575}$?



का मान क्या है?

- a) $\frac{3917}{355}$
- b) $\frac{3816}{325}$
- c) $\frac{3714}{345}$
- d) $\frac{3216}{315}$

1x2

1x3
2

2x3
3x5

3x4
5x7

25x23

$$7 \times \left[1 - \frac{1}{13} \right] = \frac{7 \times 12}{13}$$

$$11 \times \frac{1}{2} \left[1 - \frac{1}{25} \right] = \frac{11}{2} \times \frac{24}{25}$$

$$12 \left[\frac{7}{13} + \frac{11}{25} \right] = \frac{12 \times 318}{325}$$

coaching center

$$x = \frac{1}{12} - \frac{1}{24} = \frac{1}{24}$$

$$y = \frac{1}{36} - \frac{1}{72} = \frac{1}{72}$$

$$\frac{x}{y} = \frac{1 \times 72}{24 \times 1} = 3$$

10. If $x = \frac{1}{12 \cdot 13} + \frac{1}{13 \cdot 14} + \frac{1}{14 \cdot 15} + \dots + \frac{1}{23 \cdot 24}$,
 $y = \frac{1}{36 \cdot 37} + \frac{1}{37 \cdot 38} + \frac{1}{38 \cdot 39} + \dots + \frac{1}{71 \cdot 72}$, then
 $\frac{x}{y}$ is equal to:

यदि $x = \frac{1}{12 \cdot 13} + \frac{1}{13 \cdot 14} + \frac{1}{14 \cdot 15} + \dots + \frac{1}{23 \cdot 24}$, $y =$
 $\frac{1}{36 \cdot 37} + \frac{1}{37 \cdot 38} + \frac{1}{38 \cdot 39} + \dots + \frac{1}{71 \cdot 72}$, तो $\frac{x}{y}$ का मान
ज्ञात कीजिये:

a) $\frac{1}{3}$

b) $\frac{1}{24}$

c) $\frac{1}{72}$

~~d) 3~~

coaching center

$$\frac{1}{3 \times 5 \times 7} + \frac{1}{5 \times 7 \times 9} + \frac{1}{7 \times 9 \times 11} = ?$$

$$= \frac{1}{4} \left[\frac{1}{3 \times 5} - \frac{1}{9 \times 11} \right]$$

$$= \frac{1}{4} \left[\frac{99 - 15}{3 \times 5 \times 9 \times 11} \right]$$

$$\frac{1}{3} - \frac{1}{5} = \frac{2}{3 \times 5}$$

$$\frac{1}{3 \times 5} - \frac{1}{5 \times 7}$$

$$= \frac{7 - 3}{3 \times 5 \times 7}$$

coaching center

$$\frac{1}{1 \times 2 \times 3} + \frac{1}{2 \times 3 \times 4} + \dots + \frac{1}{8 \times 9 \times 10} = ?$$



$$= \frac{1}{2} \left[\frac{1}{1 \times 2} - \frac{1}{9 \times 10} \right]$$

$$= \frac{1}{2} \times \frac{22}{90} = \frac{11}{45}$$

coaching center

$$\frac{1}{3 \times 5 \times 7 \times 9} + \frac{1}{5 \times 7 \times 9 \times 11} = ?$$

$$= \frac{1}{6} \left[\frac{1}{3 \times 5 \times 7} - \frac{1}{7 \times 9 \times 11} \right]$$

coaching center

II. What is the value of $\frac{1}{1 \times 5 \times 9} + \frac{1}{5 \times 9 \times 13} + \frac{1}{9 \times 13 \times 17}$?

$\frac{1}{1 \times 5 \times 9} + \frac{1}{5 \times 9 \times 13} + \frac{1}{9 \times 13 \times 17}$ का मान क्या है?

- 8 a) $\frac{216}{5 \times 13 \times 17}$ b) $\frac{54}{5 \times 13 \times 17}$ c) $\frac{27}{5 \times 13 \times 17}$ d) None of these

$$\begin{aligned} & \frac{1}{8} \left[\frac{1}{1 \times 5} - \frac{1}{13 \times 17} \right] \\ & = \frac{1}{8} \left(\frac{27}{5 \times 13 \times 17} \right) \end{aligned}$$

coaching center

12. What is the value of $\frac{2}{3 \times 5 \times 7} + \frac{2}{5 \times 7 \times 9} + \frac{2}{7 \times 9 \times 11} + \dots$ up to 10 terms?

$\frac{2}{3 \times 5 \times 7} + \frac{2}{5 \times 7 \times 9} + \frac{2}{7 \times 9 \times 11} + \dots$ का 10 पदों तक मान क्या है?

a) $\frac{112}{1725}$
these

~~b) $\frac{56}{1725}$~~

c) $\frac{28}{1725}$

d) None of

$$10^{\text{th}} = \frac{1}{21 \times 23 \times 25}$$

$$\frac{1}{2} \times \frac{1}{5} \left[\frac{1}{3 \times 5} - \frac{1}{23 \times 25} \right]$$

$$= \frac{1}{2} \times \frac{1}{5} \left[\frac{56}{15 \times 23} \right]$$

$\frac{56}{115} \quad 1725$

13. What is the value of $S = \frac{1}{1 \times 3 \times 5} + \frac{1}{1 \times 4} + \frac{1}{3 \times 5 \times 7} + \frac{1}{4 \times 7} + \frac{1}{5 \times 7 \times 9} + \frac{1}{7 \times 10} + \dots$ upto 20 terms, then what is the value of S?

$$\begin{aligned} 1 - \frac{1}{12} &= \frac{11}{12} \\ 1 - \frac{1}{10} &= \frac{9}{10} \\ 1 - \frac{1}{161} &= \frac{160}{161} \end{aligned}$$

$S = \frac{1}{1 \times 3 \times 5} + \frac{1}{1 \times 4} + \frac{1}{3 \times 5 \times 7} + \frac{1}{4 \times 7} + \frac{1}{5 \times 7 \times 9} + \frac{1}{7 \times 10} + \dots$ 20 पदों तक हैं, तो S का मान क्या है?

- a) $\frac{6179}{15275}$ ~~b) $\frac{6070}{14973}$~~ c) $\frac{7191}{15174}$ d) $\frac{5183}{16423}$

$$\frac{1}{3} \left(1 - \frac{1}{31} \right) = \frac{1}{3} \times \frac{10}{31}$$

$$\frac{1}{4} \left(\frac{1}{1 \times 3} - \frac{1}{21 \times 23} \right) = \frac{1}{4} \times \frac{40}{161}$$

$$\frac{483}{124} = \frac{483}{607}$$

$$10 \left(\frac{1}{31} + \frac{4}{483} \right)$$

$$= \frac{10 \times 607}{61 \times 483}$$

$$\begin{aligned} 10^{\text{th}} &= \frac{1}{28 \times 61} \\ 10^{\text{th}} &= \frac{1}{19 \times 21 \times 23} \end{aligned}$$

coaching center

$$x = \sqrt{6 + \sqrt{6 + \sqrt{6 + \dots \infty}}} \rightarrow \boxed{3}, -2$$

\swarrow \searrow \swarrow \searrow
 3×2 $+ve$ x

$$\Rightarrow x = \sqrt{6+x}$$

$$\Rightarrow x^2 = 6+x$$

$$\Rightarrow x^2 - x - 6 = 0$$

$$\frac{1 \pm \sqrt{25}}{2} = \frac{1 \pm 5}{2} = 3, -2$$

1+24

$$\left. \begin{aligned} &\sqrt{6 - \sqrt{6 - \sqrt{6 - \dots \infty}}} \\ &\downarrow \\ &\sqrt{2}, -3 \end{aligned} \right\} +ve$$

x

Under root patterns:

$$\sqrt{8 + \sqrt{8 + \sqrt{8 + \dots \infty}}} = x$$

$$\sqrt{8 + x} = x$$

$$\Rightarrow x^2 - x - 8 = 0$$

1+32

$$\frac{1 \pm \sqrt{33}}{2} = \frac{1 + \sqrt{33}}{2}$$

$$\sqrt{56 + \sqrt{56 + \sqrt{56 + \dots \infty}}} = 8$$

$$8 \times 7$$

$$\sqrt{90 - \sqrt{90 - \sqrt{90 - \dots \infty}}} = 9$$

$$10 \times 9$$

$$\sqrt{2 - \sqrt{2 - \sqrt{2 - \dots \infty}}} = 1$$

$$2 \times 1$$

14. $\sqrt{6 + \sqrt{6 + \sqrt{6 + \dots}}}$ is equal to

a) $6^{\frac{2}{3}}$

b) 6

c) $3\frac{1}{2}$

d) 3

2) (3)

e1

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15. $\sqrt{72 - \sqrt{72 - \sqrt{72 - \dots}}}$ is equal to

a) $8^{\frac{2}{3}}$

b) 8

c) 9

d) 3

9x(8)

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16. If $m = \sqrt{5 + \sqrt{5 + \sqrt{5 + \dots}}}$ and $n = \sqrt{5 - \sqrt{5 - \sqrt{5 - \dots}}}$ then the relation between m and n is

अगर $m = \sqrt{5 + \sqrt{5 + \sqrt{5 + \dots}}}$ और $n = \sqrt{5 - \sqrt{5 - \sqrt{5 - \dots}}}$ है तो m और n में क्या सम्बन्ध है?

a) $m - n + 1 = 0$

b) $m + n + 1 = 0$

c) $m + n - 1 = 0$

~~d) $m - n - 1 = 0$~~

$5 = x \times (x+1)$

$$\begin{aligned} m &= x+1 \\ n &= x \end{aligned}$$

$\rightarrow m - n = 1$

$$x = \sqrt{1 + \sqrt{1 + \sqrt{1 + \dots}}}$$

$$x = \sqrt{1 + x}$$

$$\Rightarrow x^2 - x - 1 = 0$$

$$x = \frac{1 + \sqrt{5}}{2} = \frac{\sqrt{5+1}}{2} = \frac{\sqrt{1+4}}{2}$$

$\left. \begin{array}{l} 2.23 \\ 3.23 \end{array} \right\} \frac{3.23}{2}$

17. The value of $\sqrt{1 + \sqrt{1 + \sqrt{1 + \dots}}}$

$\sqrt{1 + \sqrt{1 + \sqrt{1 + \dots}}}$ का मान है :

- a) Equals to 1
- b) Lies between 0 and 1
- ~~c) Lies between 1 and 2~~
- d) is greater than 2

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18. $\sqrt{3\sqrt{3\sqrt{3}\dots\infty}}$ is

a) 9

b) ∞

~~c) 3~~

d) $\sqrt{3}$

$$x = \sqrt{3\sqrt{3\sqrt{3}\dots\infty}}$$

$$\Rightarrow x = \sqrt{3 \cdot x}$$

$$\Rightarrow x^2 = 3x$$

$$\sqrt{7\sqrt{7\sqrt{7}\dots\infty}} = 7$$

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19. If $x = \sqrt{a \sqrt[3]{b \sqrt{a \sqrt[3]{b \dots \dots}}}}$ then value of x is

अगर $x = \sqrt{a \sqrt[3]{b \sqrt{a \sqrt[3]{b \dots \dots}}}}$ है तो x का मान:

- a) $\sqrt[5]{ab^3}$ b) $\sqrt[3]{a^5b}$ c) $\sqrt[3]{a^3b}$ d) $\sqrt[5]{a^3b}$

$$\Rightarrow x = \sqrt{a \sqrt[3]{b \cdot x}}$$

$$\Rightarrow x^2 = a \cdot \sqrt[3]{b \cdot x}$$

$$\Rightarrow x^6 = a^3 \cdot b \cdot x$$

$$\Rightarrow x^5 = a^3 b$$

$$\begin{aligned} x &= (a^3 b)^{\frac{1}{5}} \\ &= \sqrt[5]{a^3 b} \end{aligned}$$

20. Solve $\sqrt{2 \sqrt[3]{4 \sqrt{2 \sqrt[3]{4 \dots}}}} = x$

~~a) 2~~ b) 4 c) 16 d) 32

$$\sqrt{2 \sqrt[3]{4 \cdot x}} = x$$

$$\Rightarrow 2 \cdot \sqrt[3]{4x} = x^2$$

$$\Rightarrow 8 \cdot 4 \cdot x = x^6 \cdot 5$$

$$\Rightarrow 32 = x^5$$

$$\Rightarrow 2 = x$$

$$4^{\frac{1}{3}} = 32^a$$

$$\Rightarrow 2^{\frac{2}{3}} = 2^{5a}$$

$$\Rightarrow 5a = \frac{2}{3}$$

$$\Rightarrow a = \frac{2}{15}$$

21. If $x = \sqrt[4]{4^{\sqrt[4]{4^{\sqrt[4]{4^{\dots}}}}}} = 32^a$, then $a = ?$

यदि $x = \sqrt[4]{4^{\sqrt[4]{4^{\sqrt[4]{4^{\dots}}}}}} = 32^a$ है, तो a का मान होगा : x

~~a) $\frac{2}{15}$~~

b) $\frac{4}{15}$

c) $\frac{2}{5}$

d) $\frac{1}{5}$

$$\Rightarrow x = \sqrt[4]{4 \cdot x}$$

$$\Rightarrow x^4 = 4 \cdot x$$

$$\Rightarrow x^3 = 4$$

$$\Rightarrow x = 4^{\frac{1}{3}}$$

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- $\sqrt{a \pm \sqrt{a \pm \sqrt{a \pm \dots \dots \infty}}} = \frac{\sqrt{4a+1} \pm 1}{2}$

$$\sqrt{a + \sqrt{a + \sqrt{a + \dots \dots \infty}}} = \frac{\sqrt{4a+1} + 1}{2}$$

- $\sqrt{a + \sqrt{a - \sqrt{a + \sqrt{a - \dots \dots \infty}}}} = \frac{\sqrt{4a-3} + 1}{2}$

- $\sqrt{a - \sqrt{a + \sqrt{a - \sqrt{a + \dots \dots \infty}}}} = \frac{\sqrt{4a-3} - 1}{2}$

- $\sqrt{a \pm n \sqrt{a \pm n \sqrt{a \pm \dots \dots \infty}}} = \text{break into 2 numbers with gap of } n$

- $\sqrt{a \pm \sqrt[b]{a \pm \sqrt[b]{a \pm \dots \dots \infty}}} = \frac{\sqrt{4a+b^2} \pm b}{2}$

$$\Rightarrow m = \sqrt{6 + \sqrt{6 - m}}$$

$$\Rightarrow m^2 = 6 + \sqrt{6 - m}$$

$$\Rightarrow m^2 - 6 = \sqrt{6 - m}$$

$$\Rightarrow m^4 + 36 - 12m^2 = 6 - m$$

$$\Rightarrow m^4 - 12m^2 + m + 36 = 6$$

22. If $m = \sqrt{6 + \sqrt{6 - \sqrt{6 + \sqrt{6 - \dots \infty}}}}$ then $m^4 - 12m^2 + m + 36 = ?$

अगर $m = \sqrt{6 + \sqrt{6 - \sqrt{6 + \sqrt{6 - \dots \infty}}}}$ तो $m^4 - 12m^2 + m + 36 = ?$

a) 0

b) -6

~~c) 6~~

d) None of these

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