



Mahendra's



SSC CGL/CPO/CHSL

MATHS

ALGEBRA

(बीजगणित)

PART-5

Most Asked Questions By SSC

LIVE

06:30 PM





arun ch mandal 1 day ago

HW IS 2525
NICE SESSION SIR
THANK YOU SIR

REPLY

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Kanhaiya Lal 1 day ago

Last but correct
Ek hi war me 🤔 😂 😊 🙌 🙌

REPLY



ARNAB DEBROY 1 day ago

c)2525

REPLY

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krishika singh 1 day ago

2525(c)

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Somya Jain 1 day ago

C) 2525

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AYAN PRAMANIK 19 hours ago

C)2525

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creative sg 1 day ago

Answer : 2525

REPLY

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zSOURAJIT GHOSH 1 day ago



c. 2525

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SUMONA RAY 1 day ago
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Prashant Rajput 1 day ago
Ans is 2525 

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Nidhi Gupta 1 day ago
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Shivani Sharma 1 day ago
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puspranjan singh 1 day ago
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Mohd Irfan 1 day ago
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If $x^6 + \frac{1}{x^6} = 5$, then $x^{30} + \frac{1}{x^{30}} = ?$

a)2025

b)2255

c)2525

d)2552

01:00

If $x^4 - 83x^2 + 1 = 0$, then a value of $x^3 - x^{-3}$ can be:

यदि $x^4 - 83x^2 + 1 = 0$, तो $x^3 - x^{-3}$ का मान होगा :

(a) 739

(b) 758

(c) 737

(d) 756

01:00

If $x = \frac{\sqrt{5} + \sqrt{3}}{\sqrt{5} - \sqrt{3}}$ find the value of $\frac{x^6 + 4x^5 + 2x^3 + 4x + 1}{4x^5 + 5x^3 + 4x} = ?$

यदि $x = \frac{\sqrt{5} + \sqrt{3}}{\sqrt{5} - \sqrt{3}}$ है, तो $\frac{x^6 + 4x^5 + 2x^3 + 4x + 1}{4x^5 + 5x^3 + 4x}$ का मान क्या है?

(a) 562/192

(b) 627/124

(c) 738/253

(d) 485/67

01:00

If $x^2 - 29x + 199 = 0$, then $(x - 11)^3 - \frac{1}{(x-11)^3} = ?$

a) $144\sqrt{5}$

b) $96\sqrt{5}$

c) $121\sqrt{5}$

d) None

01:00



If $x^2 + 13x + 39 = 0$, then $(x + 8)^5 - \frac{1}{(x+8)^5} = ?$

a)393

b)396

c)392

d)394

01:00

If $x = 3+2\sqrt{2}$, then the value of $\frac{x^6 + x^5 + x^4 + x^3 + x^2 + x + 1}{x^3}$ is

a) 138

b) 139

c) 116

d) 162

01:00

If $x^4 + \frac{1}{x^4} = 727$, then $x^3 - \frac{1}{x^3} = ?$

(a) 125

(b) 140

(c) 155

(d) 170

01:00

$$5a + \frac{1}{3a} = 5, \text{ then } 9a^2 + \frac{1}{25a^2} = ?$$

$$\text{यदि } 5a + \frac{1}{3a} = 5 \text{ हो तो } 9a^2 + \frac{1}{25a^2} = ?$$

- (a) $\frac{51}{5}$ (b) $\frac{29}{5}$ (c) $\frac{52}{5}$ (d) $\frac{39}{5}$

01:00

If $3x + \frac{1}{2x} = 5$, then $8x^3 + \frac{1}{27x^3} = ?$

यदि $3x + \frac{1}{2x} = 5$ हो तो $8x^3 + \frac{1}{27x^3} = ?$

a) $\frac{946}{27}$

b) $\frac{820}{27}$

c) $\frac{730}{27}$

d) $\frac{973}{27}$

01:00

If $24\sqrt{3}x^3 + 2\sqrt{2}y^3 = (2\sqrt{3}x + \sqrt{2}y)(Ax^2 + Bxy + Cy^2)$ then $(2A + \sqrt{6}B - C)$ is equal to:

अगर $24\sqrt{3}x^3 + 2\sqrt{2}y^3 = (2\sqrt{3}x + \sqrt{2}y)(Ax^2 + Bxy + Cy^2)$ है, तो $(2A + \sqrt{6}B - C)$ बराबर है:

A) 10

B) 14

C) 6

D) 8

01:00

If $40\sqrt{5}x^3 - 3\sqrt{3}y^3 = (2\sqrt{5}x - \sqrt{3}y) \times (Ax^2 + Bxy + Cy^2)$, then what is the value of $\sqrt{B^2 + C^2 - A}$?

यदि $40\sqrt{5}x^3 - 3\sqrt{3}y^3 = (2\sqrt{5}x - \sqrt{3}y) \times (Ax^2 + Bxy + Cy^2)$ है तो $\sqrt{B^2 + C^2 - A}$ का मान क्या है?

A) 11 B) 7

C) 8

D) 9

01:00

$$\frac{a^3(b^2 - c^2) + b^3(c^2 - a^2) + c^3(a^2 - b^2)}{a^2(b - c) + b^2(c - a) + c^2(a - b)} = ?$$

a) $ab + bc + ca$

b) 1

c) 0

d) $a + b + c$

01:00

$$\frac{a^3(b+c)}{(a-b)(a-c)} + \frac{b^3(c+a)}{(b-c)(b-a)} + \frac{c^3(a+b)}{(c-a)(c-b)} = ?$$

a) abc

b) $a+b+c$

c) $ab+bc+ca$

d) 3

01:00

$$\frac{a(b-c)^2}{(c-a)(a-b)} + \frac{b(c-a)^2}{(a-b)(b-c)} + \frac{c(a-b)^2}{(b-c)(c-a)} = ?$$

a) $a+b+c$

b) 3

c) $a^2 + b^2 + c^2$

d) abc

01:00

If $a+b+c=0$, then $\frac{1}{(a+b)(b+c)} + \frac{1}{(a+c)(b+a)} + \frac{1}{(c+a)(c+b)} = ?$

a) 1 b) 0 c) -1 d) -2

01:00

If $a+b+c=0$, then $\frac{a^2}{a^2-bc} + \frac{b^2}{b^2-ca} + \frac{c^2}{c^2-ab} = ?$

a) 0 b) 1 c) 3 d) 2

01:00

If $a+b+c=0$, then $\frac{a^2}{2a^2+bc} + \frac{b^2}{2b^2+ca} + \frac{c^2}{2c^2+ab} = ?$

a) 0 b) 1 c) 3 d) 2

01:00

If $a+b+c=0$, then $\frac{a^2+b^2+c^2}{(a-b)^2+(b-c)^2+(c-a)^2} = ?$

a) 1

b) 3

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

d) 0

01:00

