CGL-CHSL 20+Lakh

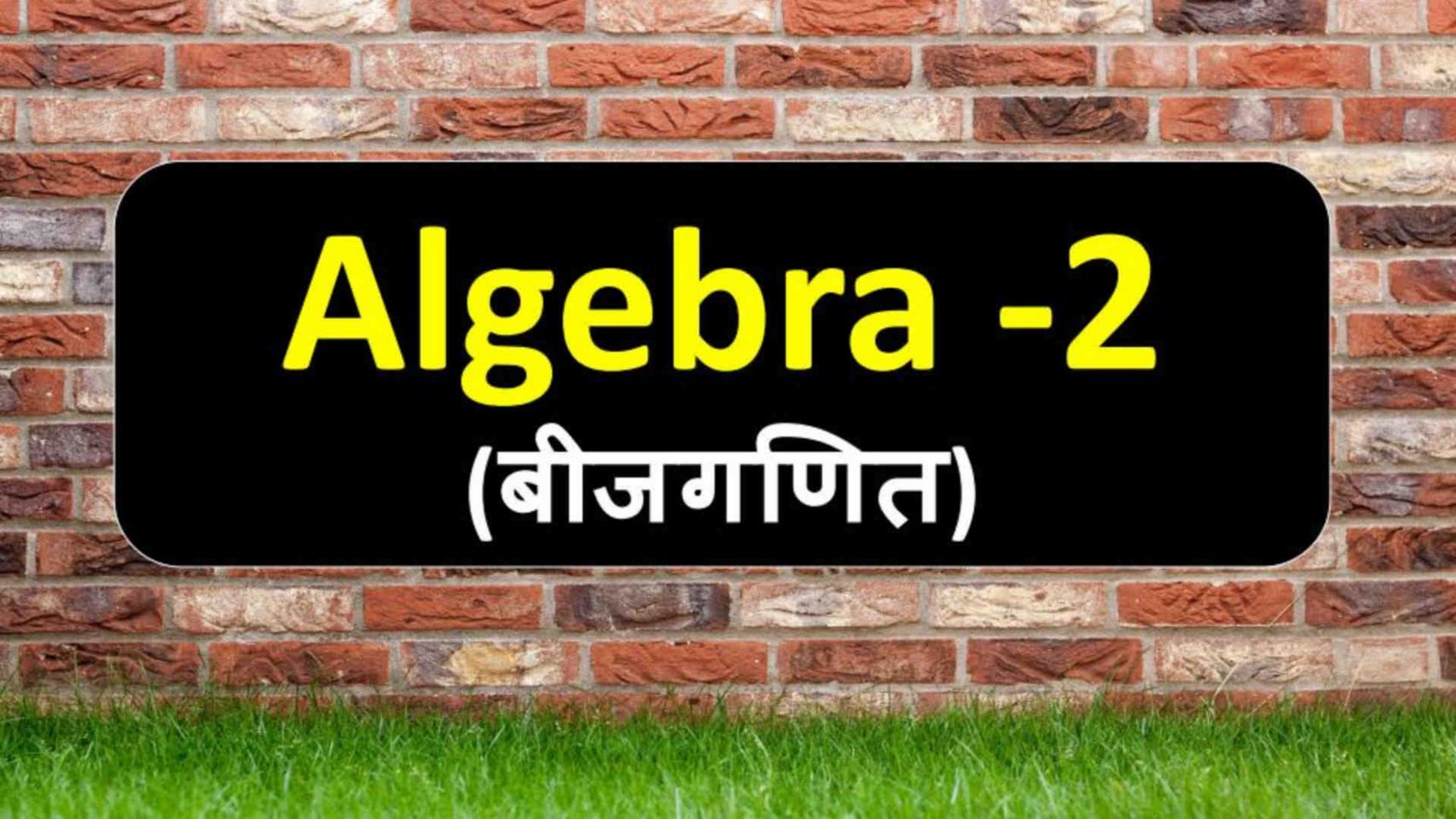
अब तो OFFICER बन के रहेंगे

- **✓ CHAPTERWISE**
- ✓ MOCK TEST
- ✓ LATEST QUESTIONS ASKED BY TCS IN VARIOUS EXAMS
- ✓ DIVIDED ON DIFFERENT LEVELS.



अपनी मंज़िल को भुला कर जिया तो क्या जिया है दम तुझमें तो उसे पा के दिखा लिखे दे खून से अपने कामयाबी की कहानी और बोल उस किस्मत को है दम तो मिटा के दिखा



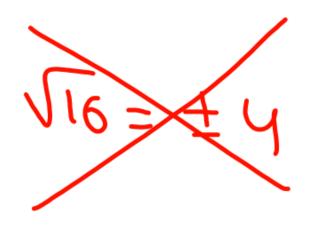


Concept of Perfect Square

$$\chi^2 = 9$$

$$\chi = \pm \sqrt{9}$$

$$\chi = \pm 3$$



$$\sqrt{16} = 4$$
 $\sqrt{16} = 3$

COMPLETE MATHS COURSE (For all govt. exams)

BY ADITYA RANJAN SIR

CHSL

$$\sqrt{3+4+9}$$
 = $\sqrt{16}$ = 4

If
$$(a-3)^2 + (b-4)^2 + (c-9)^2 = 0$$
,

then
$$\sqrt{a+b+c} = ?$$

$$(a) -4$$

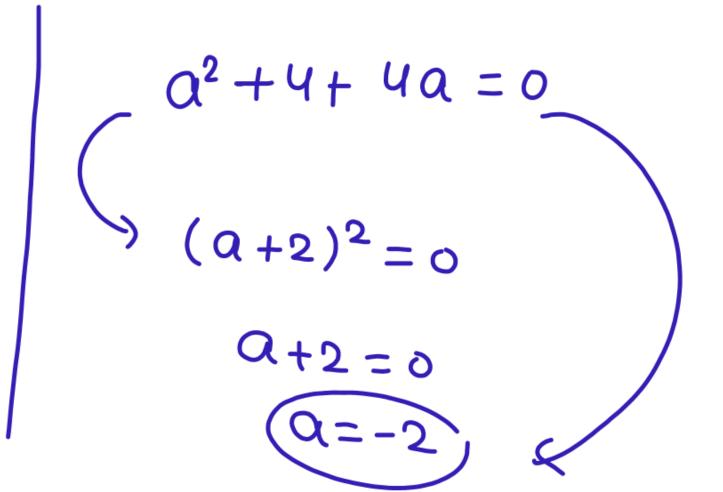
$$3 = 4 + 5$$

If
$$(a-4)^2 + (b-5)^2 + (c-3)^2 = 0$$
,
then the value of $\frac{a+b}{c}$ is

- (a) 0 (c) 1

$$a^{2}+b^{2}+2ab=0$$

$$(a+b)^{2}=0$$



If
$$a^2 + b^2 + c^2 = 2 (a - b - c) - 3$$
, then the value of $4a - 3b + 5c$ is -

(b)

(c) 5



If
$$x^2 + y^2 + z^2 = 2(x + z - 1)$$
, then the value of $x^3 + y^3 + z^3$ is

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

$$x^2 + y^2 + z^2 = 2(x + z - 1)$$
, then the value of Cal Mains
$$x^3 + y^3 + z^3$$
 is
$$x^3 + z^3$$
 is
$$x$$

CGL Mains

If
$$16x^2 + 9y^2 + 4z^2 = 24(x - y + z) - 61$$
, then the value of $(xy + 2z)$ is:

CGL CGL 4 June 2019 (Afternoon)

$$(c)$$
 3

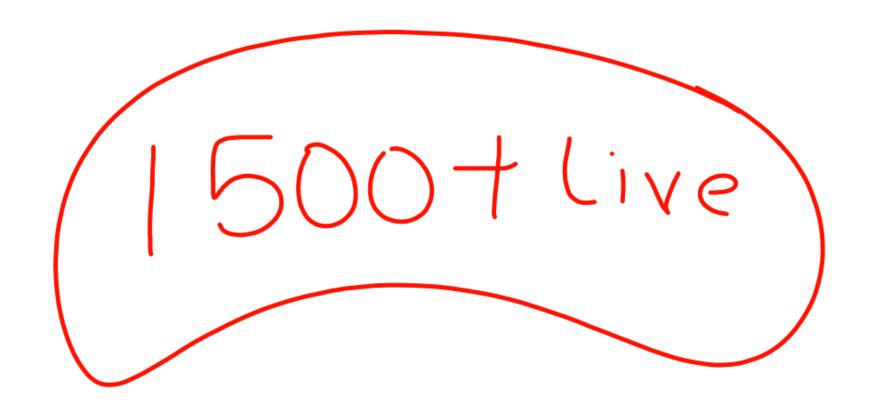
If $9a^2 + 4b^2 + c^2 + 21 = 4(3a + b - 2c)$, then the value of (9a + 4b - c) is:

CGL CGL 7 June 2019 (Afternoon)

If
$$a^2 + b^2 + c^2 + 27 = 6(a + b + c)$$
, then the value of $\sqrt[3]{a^3 + b^2 - c^3}$ is:

CGL CGL 10 June 2019 (Morning)

$$\sqrt[3]{q^3} = (d) = 6$$



If $a^2 + 4b^2 + 49c^2 + 18 = 2(2b + 28c - a)$, then the value of (3a + 2b + 7c) is :

SSC CHSL 2 July 2019 (Morning)

- (a) 0
- (c) 1

If
$$a^2 + b^2 + c^2 + 216 = 12(a + b - 2c)$$
, then find the value of $\sqrt{ab + bc - ca}$.

CPO 2019 23/11/2020 (Morning)

(a) 6

(b) 4

(c) 3

(a) 6 (b) 4 (d) 8 (c) 3 (d) 8
$$= \sqrt{ab+b(-ac)}$$
 $= \sqrt{36-72+72}$ $= 6$

If
$$a^2 + b^2 + c^2 + 84 = 4(a - 2b + 4c)$$
, then find the value of $\sqrt{ab - bc + ca}$.

(a)
$$5\sqrt{10}$$
 (b) $4\sqrt{10}$

(c)
$$2\sqrt{10}$$
 (d) $\sqrt{10}$



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$$\chi^2 + \chi^2 + \chi^2 = \bot$$

(c) 2

$$3x^2 = 1$$

$$3x^2 = 1$$

If
$$xy + yz + zx = 1$$
, then $\frac{1+y^2}{(x+y)(y+z)} = ?$

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

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0 then

$$\left(\frac{4\chi-3}{\chi}\right)\chi 3 = 0 \qquad \text{If } \frac{4x-3}{x} + \frac{1}{x} + \frac{1}{y} + \frac{1}{z} \text{ is}$$

$$= \frac{3}{\chi} \qquad \text{(a) } 9$$

$$= \frac{3}{\chi} \qquad \text{(c) } 4$$

(b) 3

4y-3

(d) 6

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$$(\frac{2+q}{q})x3 = 4$$

 $(\frac{3+q}{q})x3 = 4q$
 $(\frac{3+q}{q})x3 = 4q$

If
$$\frac{2+a}{a} + \frac{2+b}{b} + \frac{2+c}{c} = 4$$
 then the value

of
$$\frac{(ab+bc+ca)}{abc}$$
 is (a) 2

$$\frac{1}{2}$$

$$= \frac{30^{2}}{9^{2}} = \frac{3}{9} = \frac{3}{8} = \frac{1}{2}$$

(c) 0

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If
$$x^2 + y^2 + z^2 = xy + yz + zx$$
 then the value of
$$\frac{3x^4 + 7y^4 + 5z^4}{5x^2y^2 + 7y^2z^2 + 3z^2x^2}$$
 is

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

COMPLETE MATHS COURSE (For all govt. exams)

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$$(\frac{1}{0+1}) \times 3 = 2$$
If $\frac{1}{a+1} + \frac{1}{b+1} + \frac{1}{c+1} = 2$. Find $a^2 + b^2 + c^2$

$$3 = 20 + 2$$

$$1 = 20$$

$$1 = 20$$

$$1 = 20$$

$$1 = 20$$

$$1 = 20$$

$$1 = 20$$

$$2$$

$$(c) \frac{1}{7}$$

(b)
$$\frac{1}{6}$$





If
$$\frac{x}{xa+yb+zc} = \frac{y}{ya+zb+xc} = \frac{z}{za+xb+yc}$$

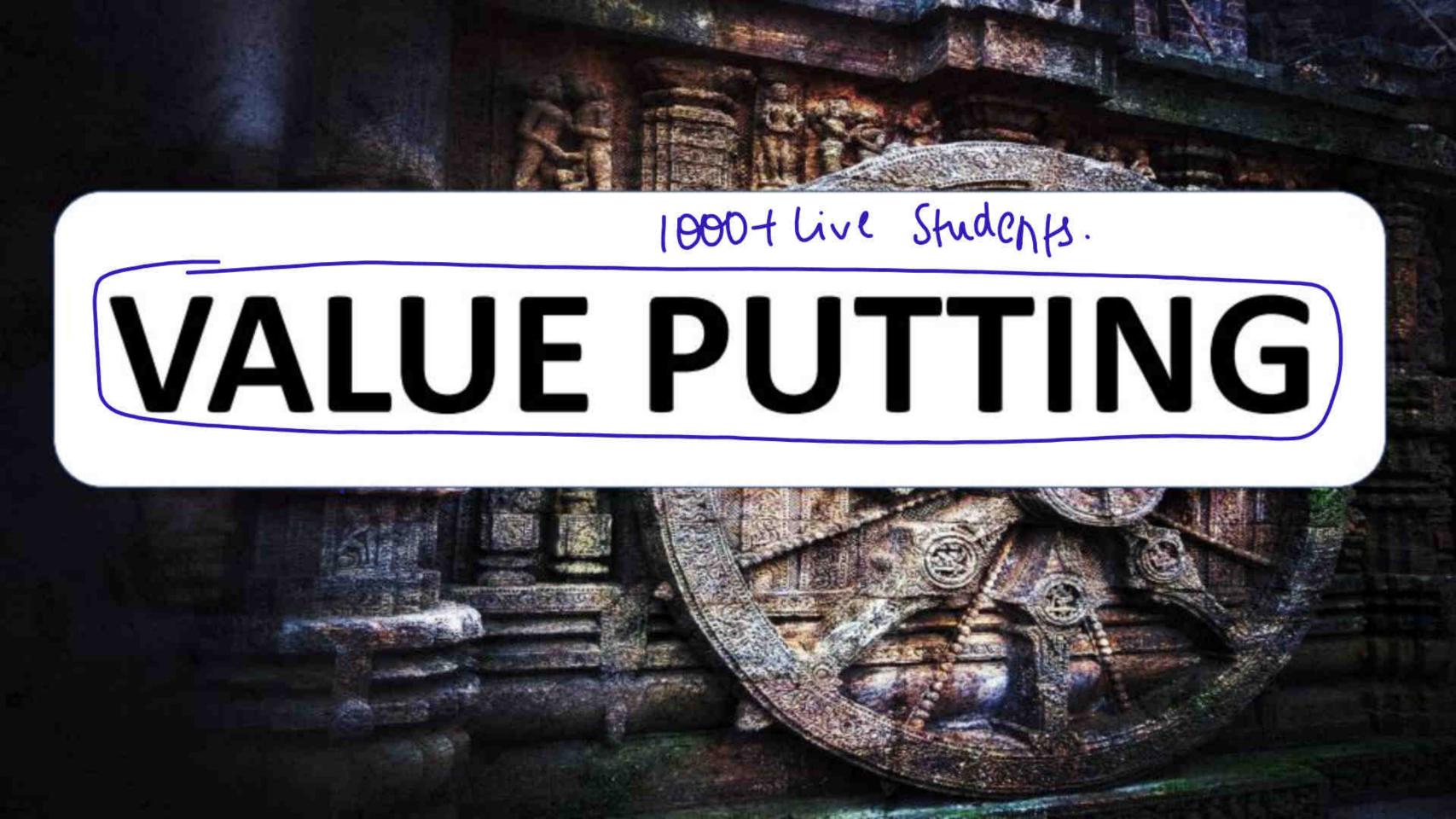
and $x + y + z \neq 0$ then each ratio is

(a)
$$\frac{1}{a-b-c}$$
 (b) $\frac{1}{a+b-c}$

(b)
$$\frac{1}{a+b-c}$$

(c)
$$\frac{1}{a-b+c}$$

(c)
$$\frac{1}{a-b+c}$$
 (d)
$$\frac{1}{a+b+c}$$



Concept of
$$a=1$$

$$b=-1$$

$$c=0$$

$$c=0$$

$$c=-1$$

$$c=-1$$

COMPLETE MATHS COURSE (For all govt. exams)

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If
$$a + b + c = 0$$
, then the value of $a^2 + b^2 + b^2$

- (a) 0
- (c) 2

- b) 1
- (d) 3

If
$$a + b + c = 0$$
 then the value of
$$\frac{a^2 + b^2 + c^2}{ab + bc + ca}$$

$$-\frac{a^2+b^2}{ab}$$

If
$$a + b + c = 0$$

then $(a + b - c)^2 + (b + x - a)^2 + (b + a - b)^2 = ?$
(a) 0 (b) 8abc (c) $4(a^2 + b^2 + a^2)$ (d) $4(ab + bc + ca)$

If
$$a + b = 1$$
, then $a^4 + b^4 - a^3 - b^3 - 2a^2b^2 + ab$ is

$$(b)$$
 2

If
$$x + y = 1 + xy$$
, then $x^3 + y^3 - x^2y^3$ is

(a) 0

(b) 1

(c) -1

(d) 2

If
$$a + b = 1$$
, find $a^3 + b^3 - ab - (a^2 - b^2)^2$
(a) -1 (b) 1

$$\frac{Q^3 - Q^4}{1 - 1}$$

If
$$a = x + y$$
, $b = x - y$, $c = x + 2y$
then $a^2 + b^2 + c^2 - ab - bc - ca$ is
(a) $4y^2$ (b) $5y^2$
(c) $6y^2$ (d) $7y^2$

If
$$x = \frac{1}{\alpha}$$
 and $y = \alpha - \frac{1}{\alpha}$ then

$$\sqrt{x^4 + y^4 - 2x^2y^2}$$
 is equal to:

SSC CGL 6 June 2019 (Morning)

(a)
$$16a^2$$

(c)
$$\frac{8}{a^2}$$

If
$$x = 2 - p$$
, then $x^3 + + 6xp + p^2$ is equal to:
SSC CGL 7 June 2019 (Morning)

(a) 12 (b) 6

(c) 8 (d) 4



MATIS SPECIAL



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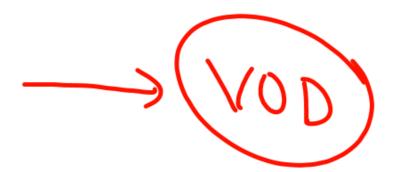
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 - CLASS NOTES (BILINGUAL)

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COL/CHSL 2020 CBT-2

Pre+mains



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