

NDA 2 2024

LIVE

MATHS REVISION

CLASS 7

NAVJYOTI SIR

SSBCrack
EXAMS



13 August 2024 Live Classes Schedule

8:00AM

13 AUGUST 2024 DAILY CURRENT AFFAIRS

RUBY MA'AM

9:00AM

13 AUGUST 2024 DAILY DEFENCE UPDATES

DIVYANSHU SIR

SSB INTERVIEW LIVE CLASSES

9:00AM

OVERVIEW OF GROUP TASKS

ANURADHA MA'AM

NDA 2 2024 LIVE CLASSES

11:00AM

GK - GEOGRAPHY REVISION - CLASS 1

RUBY MA'AM

12:00PM

PHYSICS REVISION - CLASS 7

NAVJYOTI SIR

1:00PM

MATHS REVISION - CLASS 7

NAVJYOTI SIR

2:00PM

BIOLOGY REVISION - CLASS 7

SHIVANGI MA'AM

5:30PM

ENGLISH - REVISION - CLASS 3

ANURADHA MA'AM

CDS 2 2024 LIVE CLASSES

11:00AM

GK - GEOGRAPHY REVISION - CLASS 1

RUBY MA'AM

12:00PM

PHYSICS REVISION - CLASS 7

NAVJYOTI SIR

2:00PM

BIOLOGY REVISION - CLASS 7

SHIVANGI MA'AM

3:00PM

MATHS REVISION - CLASS 7

NAVJYOTI SIR

5:30PM

ENGLISH - REVISION - CLASS 3

ANURADHA MA'AM

SSBCrack
EXAMS



CALL US: 080-69185400



DOWNLOAD
THE APP NOW



REVISION TOPICS :

- Binomial Theorem
- Sequences and Series

NDA 2 2024 - REVISION - MATHS – CLASS 7

If $(1 + ax)^n = 1 + 8x + 24x^2 + \dots$, then the value of a
and n , is

- (a) 2, 4 (b) 2, 3 (c) 3, 6 (d) 1, 2

$$(1+x)^n = 1 + nx + {}^nC_2 x^2 + {}^nC_3 x^3 + \dots$$

$$(1+ax)^n = 1 + n(ax) + {}^nC_2 (ax)^2 + {}^nC_3 (ax)^3 + \dots = 1 + 8x + 24x^2 + \dots$$

$$\underline{\underline{(na = 8)}}$$

$$\underline{{}^nC_2 a^2 = 24}$$

} comparing coefficients
of x & x^2 ,

NDA 2 2024 - REVISION - MATHS – CLASS 7

If $(1 + ax)^n = 1 + 8x + 24x^2 + \dots$, then the value of a and n , is

- (a) 2, 4 (b) 2, 3 (c) 3, 6 (d) 1, 2

ANSWER : (a)

NDA 2 2024 - REVISION - MATHS – CLASS 7

The coefficient of x^{-7} in the expansion of $\left(ax - \frac{1}{bx^2}\right)^{11}$ will be =

- (a) $\frac{462 a^6}{b^6}$
 (c) $\frac{462 a^3}{b^7}$

(b) $\frac{462 a^5}{b^6}$ ✓

(d) None of these

$$11-3r = -7$$

$$3r = 18$$

$$\underline{r=6}$$

$${}^{11}C_6 (a)^{11-6} \left(\frac{1}{b}\right)^6$$

$$\left(\frac{11 \times 10 \times 9 \times 8 \times 7}{5 \times 4 \times 3 \times 2} \right) a^5 b^{-6}$$

$$= 42 \times 11 \frac{a^5}{b^6} = 462 \frac{a^5}{b^6}$$

$$\left(ax - \frac{1}{bx^2}\right)^{11}$$

General Term,

$$T_{r+1} = {}^{11}C_r \left(ax\right)^{11-r} \left(\frac{1}{bx^2}\right)^r$$

$$x^{11-r-2r}$$

$$x^{11-3r} \checkmark$$

NDA 2 2024 - REVISION - MATHS – CLASS 7

The coefficient of x^{-7} in the expansion of $\left(ax - \frac{1}{bx^2}\right)^{11}$ will be

- (a) $\frac{462 a^6}{b^6}$ (b) $\frac{462 a^5}{b^6}$
(c) $\frac{462 a^3}{b^7}$ (d) None of these

ANSWER : (b)

NDA 2 2024 - REVISION - MATHS – CLASS 7

The coefficient of the middle term in the expansion of $(2 + 3x)^4$ is

- (a) 6 (b) 5! (c) 8! (d) 216

$$\text{If } n = 7,$$

$$T_{r+1} = {}^n C_r a^{n-r} b^r$$

$$\text{no. of terms} = (4+1) = \underline{5}$$

$$T_3 = {}^4 C_2 (2)^2 (3x)^3$$

$$\left(\frac{5+1}{2}\right)^{\text{th}} - \text{middle term}$$

$$= \frac{4 \times 3}{2} \times \cancel{4} \times 9$$

$$= 24 \times 9$$

$$= \underline{216}$$

NDA 2 2024 - REVISION - MATHS – CLASS 7

The coefficient of the middle term in the expansion of $(2 + 3x)^4$ is

- (a) 6
- (b) 5 !
- (c) 8 !
- (d) 216

ANSWER : (d)

NDA 2 2024 - REVISION - MATHS – CLASS 7

If p and q be positive , then the coefficients of x^p and x^q in the expansion of $(1 + x)^{p+q}$ will be

- (a) equal
- (b) equal in magnitude but opposite in sign
- (c) reciprocal to each other
- (d) None of the above

$$(1+x)^{p+q} = 1 + (p+q)x + \frac{p+q}{2} C_q x^2 + \frac{p+q}{3} C_q x^3 + \dots$$

$$\begin{aligned} x^p &\rightarrow \frac{p+q}{p} C_p \\ x^q &\rightarrow \frac{p+q}{q} C_q \end{aligned}$$

equal

$$\begin{aligned} {}^n C_r &= {}^n C_{n-r} \\ {}^{11} C_8 &= {}^{11} C_3 \end{aligned}$$

NDA 2 2024 - REVISION - MATHS – CLASS 7

If p and q be positive , then the coefficients of x^p and x^q in the expansion of $(1 + x)^{p+q}$ will be

- (a) equal
- (b) equal in magnitude but opposite in sign
- (c) reciprocal to each other
- (d) None of the above

ANSWER : (a)

NDA 2 2024 - REVISION - MATHS – CLASS 7

The term independent of x in the expansion of

$$\left(\sqrt{\frac{x}{3}} + \frac{3}{2x^2}\right)^{10}$$
 will be

- (a) 3/2
- (b) 5/4
- (c) 5/2
- (d) None of these

NDA 2 2024 - REVISION - MATHS – CLASS 7

The term independent of x in the expansion of $\left(\sqrt{\frac{x}{3}} + \frac{3}{2x^2}\right)^{10}$ will be

- (a) $3/2$
- (b) $5/4$
- (c) $5/2$
- (d) None of these

ANSWER : (b)

NDA 2 2024 - REVISION - MATHS – CLASS 7

What is the coefficient of x^4 in the expansion of
 $\left(\frac{1-x}{1+x}\right)^2$? (NDA 2010 II)

- (a) - 16
- (b) 16
- (c) 8
- (d) - 8

NDA 2 2024 - REVISION - MATHS – CLASS 7

What is the coefficient of x^4 in the expansion of $\left(\frac{1-x}{1+x}\right)^2$? (NDA 2010 II)

- (a) - 16
- (b) 16
- (c) 8
- (d) - 8

ANSWER : (b)

NDA 2 2024 - REVISION - MATHS – CLASS 7

For all $n \in N$, $2^{4n} - 15n - 1$ is divisible by)

(NDA 2011 I)

- (a) 125
- (b) 225
- (c) 450
- (d) None of these

NDA 2 2024 - REVISION - MATHS – CLASS 7

For all $n \in N$, $2^{4n} - 15n - 1$ is divisible by)

ANSWER : (b)

(NDA 2011 I)

- (a) 125
- (b) 225
- (c) 450
- (d) None of these

NDA 2 2024 - REVISION - MATHS – CLASS 7

What is the number of terms in the expansion of $(a + b + c)^n$, $n \in N$?

(NDA 2010 II)

- (a) $n + 1$
- (b) $\frac{n + 2}{2}$
- (c) $n(n + 1)$
- (d) $\frac{(n + 1)(n + 2)}{2}$

NDA 2 2024 - REVISION - MATHS – CLASS 7

What is the number of terms in the expansion of $(a + b + c)^n$, $n \in N$?

ANSWER : (d)

- (a) $n + 1$ (b) $\frac{n + 2}{(n + 1)(n + 2)}$
(c) $n(n + 1)$ (d) $\frac{(n + 1)(n + 2)}{2}$

NDA 2 2024 - REVISION - MATHS – CLASS 7

If the coefficients of 5th , 6th and 7th terms in the expansion of $(1 + x)^n$ be in AP, then the value of n is

- (a) 7 only
- (b) 14 only
- (c) 7 or 14
- (d) None of these

NDA 2 2024 - REVISION - MATHS – CLASS 7

If the coefficients of 5th , 6th and 7th terms in the expansion of $(1 + x)^n$ be in AP, then the value of n is

- (a) 7 only
- (b) 14 only
- (c) 7 or 14
- (d) None of these

ANSWER : (c)

NDA 2 2024 - REVISION - MATHS – CLASS 7

The correct matching of List I from List II is

List I	List II
A. $(1 - x)^n$	1. $\frac{x}{x+1}$
B. $(1 + x)^{-n}$	2. $1 - nx + \frac{n(n+1)}{2!} \cdot x^2 - \dots,$ if $ x < 1$
C. If $x > 1$, then $1 + \frac{1}{x} + \frac{1}{x^2} + \dots$ is	3. $1 + nx + \frac{n(n+1)}{2!} \cdot x^2 + \dots,$ if $ x < 1$
D. If $ x > 1$, then $1 - \frac{2}{x^2} + \frac{3}{x^4} - \frac{4}{x^6} + \dots$ is	4. $\frac{x}{x-1}$ 5. $\frac{x^4}{(x^2+1)^2}$ 6. $\frac{x^4}{(x^2-1)^2}$

Codes

- | | |
|----------------------|----------------------|
| A B C D | A B C D |
| (a) 1 3 4 5 | (b) 2 3 4 1 |
| (c) 3 2 4 5 | (d) 2 3 1 5 |

NDA 2 2024 - REVISION - MATHS – CLASS 7

The correct matching of List I from List II is

List I	List II
A. $(1 - x)^n$	1. $\frac{x}{x+1}$
B. $(1 + x)^{-n}$	2. $1 - nx + \frac{n(n+1)}{2!} \cdot x^2 - \dots,$ if $ x < 1$
C. If $x > 1$, then $1 + \frac{1}{x} + \frac{1}{x^2} + \dots$ is	3. $1 + nx + \frac{n(n+1)}{2!} \cdot x^2 + \dots,$ if $ x < 1$
D. If $ x > 1$, then $1 - \frac{2}{x^2} + \frac{3}{x^4} - \frac{4}{x^6} + \dots$ is	4. $\frac{x}{x-1}$ 5. $\frac{x^4}{(x^2+1)^2}$ 6. $\frac{x^4}{(x^2-1)^2}$

ANSWER : (c)

Codes

- | | |
|----------------------|----------------------|
| A B C D | A B C D |
| (a) 1 3 4 5 | (b) 2 3 4 1 |
| (c) 3 2 4 5 | (d) 2 3 1 5 |

Q) If b_1, b_2, b_3 are three consecutive terms of an arithmetic progression with common difference $d \geq 0$, then what is the value of d for which $b_3^2 = b_2 b_3 + b_1 d + 2$?

- (a) $\frac{1}{2}$
- (b) 0
- (c) 1
- (d) 2

$$(a+d)^2 = (a)(a+d) + (a-d)d + 2$$

$$\cancel{a^2} + 2ad + d^2 = \cancel{a^2} + ad + \cancel{ad} - d^2 + 2$$

$$\left. \begin{array}{l} 2d^2 = 2 \\ d^2 = 1 \end{array} \right\}$$

$$\left. \begin{array}{l} b_1 = a-d \\ b_2 = a \\ b_3 = a+d \end{array} \right\}$$

3 consecutive terms

$$d^2 = 1 \Rightarrow d = 1, -1$$

(As $d > 0$)

So, $d = 1$

Q) If b_1, b_2, b_3 are three consecutive terms of an arithmetic progression with common difference $d > 0$, then what is the value of d for which $b_3^2 = b_2 b_3 + b_1 d + 2$?

- (a) $\frac{1}{2}$
- (b) 0
- (c) 1
- (d) 2

Ans: (c)

Q) If $1, x, y, z, 16$ are in geometric progression, then what is the value of $x + y + z$?

- (a) 8
- (b) 12
- (c) 14
- (d) 16

$$a = 1 \checkmark$$

$$x = ar = ?$$

$$ar^4 = 16$$

$$y = ar^2 = ?$$

$$r^4 = \frac{16}{1} = \frac{16}{1} = 16$$

+

$$z = ar^3 = ?$$

$$r = ? \checkmark$$

$$? + ? + ? = 14$$

Q) If $1, x, y, z, 16$ are in geometric progression, then what is the value of $x + y + z$?

- (a) 8
- (b) 12
- (c) 14
- (d) 16

Ans: (c)

Q) What is the value of $9^{1/3} \cdot 9^{1/9} \cdot 9^{1/27} \dots \infty$?

- (a) 9
- (b) 3
- (c) $9^{1/3}$
- (d) 1

$$9^{\frac{1}{3}} \cdot 9^{\frac{1}{9}} \cdot 9^{\frac{1}{27}} \dots \infty$$

$$9^{\frac{1/3}{1-1/3}} = 9^{\frac{1}{2}} = \textcircled{3}$$

$$9^{\frac{1}{3}} + 9^{\frac{1}{9}} + 9^{\frac{1}{27}} + \dots \infty$$

$\frac{1}{3}, \frac{1}{9}, \frac{1}{27} \dots \infty$ forms an infinite GP,

$$a = \frac{1}{3}, \quad r = \frac{1}{3} \quad | \quad S_{\infty} = \frac{a}{1-r} \quad (|r| < 1)$$

Q) What is the value of $9^{1/3} \cdot 9^{1/19} \cdot 9^{1/27} \dots \dots \infty$?

- (a) 9
- (b) 3
- (c) $9^{1/3}$
- (d) 1

Ans: (b)

Q) Which one of the following is correct?

If $\frac{1}{b-c} + \frac{1}{b-a} = \frac{1}{a} + \frac{1}{c}$, then a, b, c are in

- (a) AP
- (b) HP
- (c) GP
- (d) None of these

$$\frac{1}{b-c} + \frac{1}{b-a} = \frac{1}{a} + \frac{1}{c}$$

$$b = 6 ; a = 4 ; c = 2$$

$$AP \rightarrow \frac{2b}{a+c} = \frac{a+c}{a+c} \quad \checkmark$$

$$HP \Rightarrow \frac{2}{b} = \frac{1}{a} + \frac{1}{c} \quad \left| \begin{array}{l} LHS = \frac{1}{3} \\ RHS = \frac{3}{4} \end{array} \right. \quad \left\{ b = \frac{2ac}{a+c} \right.$$

$$GP \Rightarrow \frac{b^2}{ac} = \frac{36}{8} \quad \left| \begin{array}{l} b^2 = 36 \\ ac = 8 \end{array} \right. \quad \checkmark$$

Q) Which one of the following is correct?

If $\frac{1}{b-c} + \frac{1}{b-a} = \frac{1}{a} + \frac{1}{c}$, then a, b, c are in

- (a) AP
- (b) HP
- (c) GP
- (d) None of these

Ans: (d)

Q) What is sum to the 100 terms of the series

$$9 + 99 + 999 + \dots ?$$

(a) $\frac{10}{9}(10^{100} - 1) - 100$ (b) $\frac{10}{9}(10^{99} - 1) - 100$

(c) $100(100^{10} - 1)$ (d) $\frac{9}{100}(10^{100} - 1)$

$$(10 - 1) + (100 - 1) + (1000 - 1) + \dots$$

$$(10^1 - 1) + (10^2 - 1) + (10^3 - 1) + \dots \text{ (100 terms)}$$

$$(10 + 10^2 + \dots + 10^{100}) - (1 + 1 + \dots \text{ (100 times)})$$

$$\frac{10((10)^{100} - 1)}{10 - 1} - 100$$

$$\frac{10}{9}((10)^{100} - 1) - 100$$

for $r > 1$,

$$\left(S_n = \frac{a(r^n - 1)}{r - 1} \right)$$

Q) What is sum to the 100 terms of the series

$$9 + 99 + 999 + \dots ?$$

- (a) $\frac{10}{9}(10^{100} - 1) - 100$ (b) $\frac{10}{9}(10^{99} - 1) - 100$
(c) $100(100^{10} - 1)$ (d) $\frac{9}{100}(10^{100} - 1)$

Ans: (a)

Q) If A, B and C are in AP and $b : c = \sqrt{3} : \sqrt{2}$, then what is the value of $\sin C$?

(a) 1

(b) $\frac{1}{\sqrt{3}}$

(c) $\sqrt{3}$

(d) ~~$\frac{1}{\sqrt{2}}$~~

$$\begin{array}{l} 2B = A+C \\ \hline A+B+C = 180^\circ \\ \hline B = 180^\circ - (A+C) \\ B = 180^\circ - 2B \end{array}$$

$$\frac{b}{\sin B} = \frac{c}{\sin C}$$

$$\frac{\sqrt{3}}{\sqrt{2}} = \frac{\sin 60^\circ}{\sin C}$$

$$\frac{b}{c} = \frac{\sin B}{\sin C}$$

$$\frac{1}{\sin C} = \sqrt{2} \Rightarrow \left(\sin C = \frac{1}{\sqrt{2}} \right)$$

$$3B = 180^\circ$$

$$B = 60^\circ$$

Q) If A, B and C are in AP and $b : c = \sqrt{3} : \sqrt{2}$, then what is the value of $\sin C$?

- (a) 1
- (b) $\frac{1}{\sqrt{3}}$
- (c) $\sqrt{3}$
- (d) $\frac{1}{\sqrt{2}}$

Ans: (d)

Q) If the AM and GM between two numbers are in the ratio $m : n$,
then what is the ratio between the two numbers?

- (a) $\frac{m + \sqrt{m^2 - n^2}}{m - \sqrt{m^2 - n^2}}$
- (b) $\frac{m + n}{m - n}$
- (c) $\frac{m^2 - n^2}{m^2 + n^2}$
- (d) $\frac{m^2 + n^2 - mn}{m^2 + n^2 + mn}$

Q) If the AM and GM between two numbers are in the ratio $m : n$,
then what is the ratio between the two numbers?

- (a) $\frac{m + \sqrt{m^2 - n^2}}{m - \sqrt{m^2 - n^2}}$
- (b) $\frac{m + n}{m - n}$
- (c) $\frac{m^2 - n^2}{m^2 + n^2}$
- (d) $\frac{m^2 + n^2 - mn}{m^2 + n^2 + mn}$

Ans: (a)

Q) The arithmetic mean of two numbers exceeds their geometric mean by 2 and the geometric mean exceeds their harmonic mean by 1.6. What are the two numbers?

- (a) 16, 4
- (b) 81, 9
- (c) 256, 16
- (d) 625, 25

Q) The arithmetic mean of two numbers exceeds their geometric mean by 2 and the geometric mean exceeds their harmonic mean by 1.6. What are the two numbers?

- (a) 16, 4
- (b) 81, 9
- (c) 256, 16
- (d) 625, 25

Ans: (a)

Q) What is the sum of $\sqrt{3} + \frac{1}{\sqrt{3}} + \frac{1}{3\sqrt{3}} + \dots$?

(a) $\frac{\sqrt{3}}{2}$

(b) $\frac{3\sqrt{3}}{2}$

(c) $\frac{2\sqrt{3}}{3}$

(d) $\sqrt{3}$

Q) What is the sum of $\sqrt{3} + \frac{1}{\sqrt{3}} + \frac{1}{3\sqrt{3}} + \dots$?

(a) $\frac{\sqrt{3}}{2}$

(b) $\frac{3\sqrt{3}}{2}$

(c) $\frac{2\sqrt{3}}{3}$

(d) $\sqrt{3}$

Ans: (b)

Q) If $\frac{1}{b-a} + \frac{1}{b-c} = \frac{1}{a} + \frac{1}{c}$, then a, b, c are in

- (a) AP
- (b) GP
- (c) HP
- (d) None of these

Q) If $\frac{1}{b-a} + \frac{1}{b-c} = \frac{1}{a} + \frac{1}{c}$, then a, b, c are in

- (a) AP
- (b) GP
- (c) HP
- (d) None of these

Ans: (c)

Q) Which one of the following options is correct?

- (a) $\sin^2 30^\circ, \sin^2 45^\circ, \sin^2 60^\circ$ are in GP
- (b) $\cos^2 30^\circ, \cos^2 45^\circ, \cos^2 60^\circ$ are in GP
- (c) $\cot^2 30^\circ, \cot^2 45^\circ, \cot^2 60^\circ$ are in GP
- (d) $\tan^2 30^\circ, \tan^2 45^\circ, \tan^2 60^\circ$ are in GP

Q) Which one of the following options is correct?

- (a) $\sin^2 30^\circ, \sin^2 45^\circ, \sin^2 60^\circ$ are in GP
- (b) $\cos^2 30^\circ, \cos^2 45^\circ, \cos^2 60^\circ$ are in GP
- (c) $\cot^2 30^\circ, \cot^2 45^\circ, \cot^2 60^\circ$ are in GP
- (d) $\tan^2 30^\circ, \tan^2 45^\circ, \tan^2 60^\circ$ are in GP

Ans: (d)

Q)What is the 10th common term between the series

$2 + 6 + 10 + \dots$ and $1 + 6 + 11 + \dots$?

- (a) 180
- (b) 186
- (c) 196
- (d) 206

Q) What is the 10th common term between the series

$2 + 6 + 10 + \dots$ and $1 + 6 + 11 + \dots$?

- (a) 180
- (b) 186
- (c) 196
- (d) 206

Ans: (b)

Q) If the AM and HM of two numbers are 27 and 12 respectively, then what is their GM equal to?

- (a) 12
- (b) 18
- (c) 24
- (d) 27

Q) If the AM and HM of two numbers are 27 and 12 respectively, then what is their GM equal to?

- (a) 12
- (b) 18
- (c) 24
- (d) 27

Ans: (b)

Q) Which term of the sequence $20, 19\frac{1}{4}, 18\frac{1}{2}, 17\frac{3}{4}, \dots$ is the first negative term?

- (a) 27th
- (b) 28th
- (c) 29th
- (d) No such term exists

Q) Which term of the sequence $20, 19\frac{1}{4}, 18\frac{1}{2}, 17\frac{3}{4}, \dots$ is the first negative term?

- (a) 27th
- (b) 28th
- (c) 29th
- (d) No such term exists

Ans: (b)

Q) If the sequence $\{S_n\}$ is a geometric progression and $S_2 S_{11} = S_p S_8$, then what is the value of p?

- (a) 1
- (b) 3
- (c) 5
- (d) cannot be determined

Q) If the sequence $\{S_n\}$ is a geometric progression and $S_2 S_{11} = S_p S_8$, then what is the value of p?

- (a) 1
- (b) 3
- (c) 5
- (d) cannot be determined

Ans: (c)

DIRECTIONS : *For the next two (02) Questions that follow:*

The sum of first 10 terms and 20 terms of an AP are 120 and 440 respectively.

Q) What is its first term?

- (a) 2
- (b) 3
- (c) 4
- (d) 5

Q) What is its first term?

- (a) 2
- (b) 3
- (c) 4
- (d) 5

Ans: (b)

Q) What is the common difference?

- (a) 1
- (b) 2
- (c) 3
- (d) 4

Q) What is the common difference?

- (a) 1
- (b) 2
- (c) 3
- (d) 4

Ans: (b)

Q) What is the number of diagonals which can be drawn by joining the angular points of a polygon of 100 sides?

- (a) 4850
- (b) 4950
- (c) 5000
- (d) 10000

Q) What is the number of diagonals which can be drawn by joining the angular points of a polygon of 100 sides?

- (a) 4850
- (b) 4950
- (c) 5000
- (d) 10000

Ans: (a)

Q) What is the geometric mean of the sequence 1, 2, 4, 8, ...
 2^n ?

- (a) $2^{n/2}$
- (b) $2^{(n+1)/2}$
- (c) $2^{(n+1)} - 1$
- (d) $2^{(n-1)}$

Q) What is the geometric mean of the sequence 1, 2, 4, 8, ...
 2^n ?

- | | |
|-------------------|-------------------|
| (a) $2^{n/2}$ | (b) $2^{(n+1)/2}$ |
| (c) $2^{(n+1)-1}$ | (d) $2^{(n-1)}$ |

Ans: (a)

Q) The harmonic mean H of two numbers is 4 and the arithmetic mean A and geometric mean G satisfy the equation $2A + G^2 = 27$. The two numbers are

- (a) 6, 3
- (b) 9, 5
- (c) 12, 7
- (d) 3, 1

Q) The harmonic mean H of two numbers is 4 and the arithmetic mean A and geometric mean G satisfy the equation $2A + G^2 = 27$. The two numbers are

- | | |
|-----------|----------|
| (a) 6, 3 | (b) 9, 5 |
| (c) 12, 7 | (d) 3, 1 |

Ans: (a)

REVISION TOPICS : (14/08/24)

- **Sequence and Series**
- **Permutations and Combinations**

NDA 2 2024

LIVE

MATHS REVISION

CLASS 8

NAVJYOTI SIR

SSBCrack
EXAMS