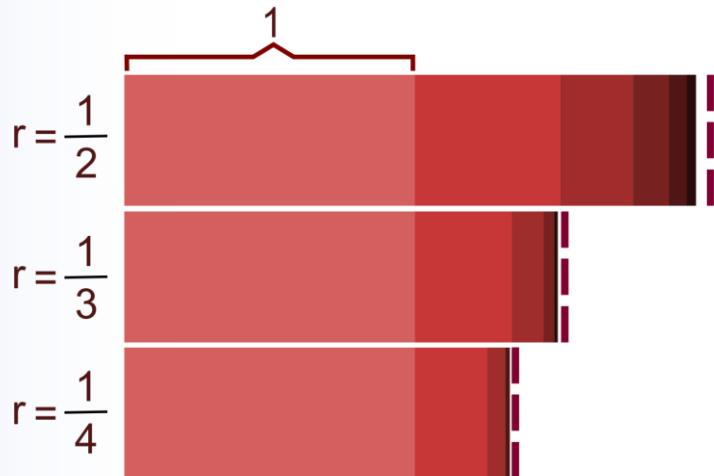


A.M, G.M and H.M.

Sequences & Series

6



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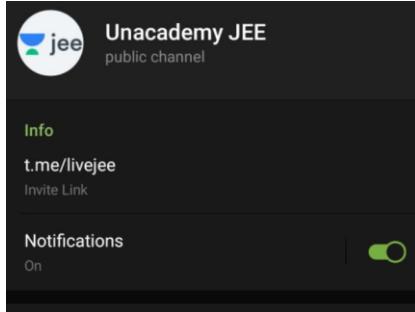
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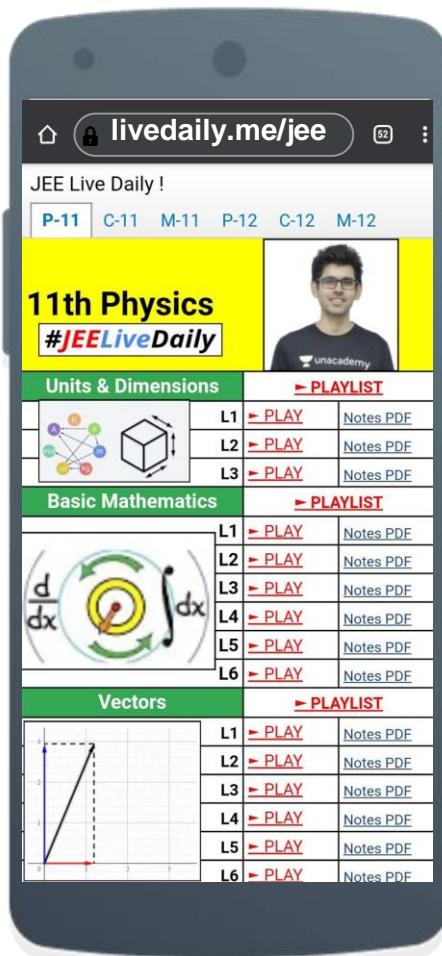
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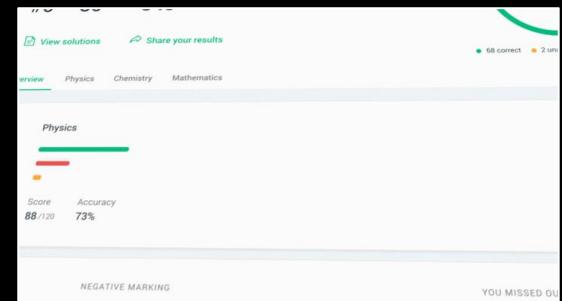
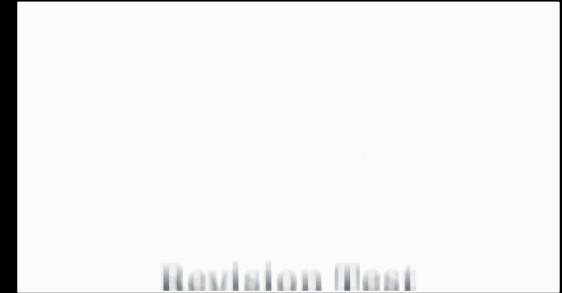


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The screenshot shows a physics class interface. At the top left is a question about a shell being fired from point O at 60 degrees with a speed of 60 m/s. At the top right is a video feed of a teacher explaining self-inductance. Below the video is a poll asking if the gun is fired again, will the shell hit the same point. A handwritten note on the right shows a diagram of a rectangle with a downward arrow labeled $P_{\text{ext}} = ?$ and a value $P_{\text{grav}} = 4$ written next to it.

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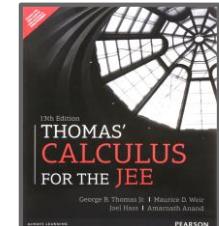
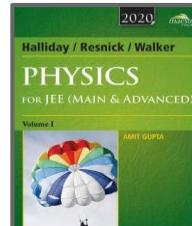
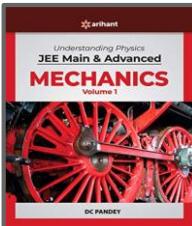
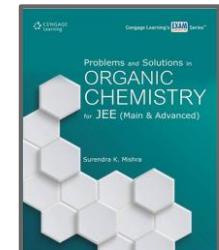
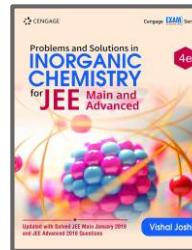
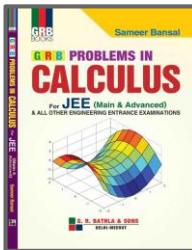
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LET'S BEGIN!!



Homework Question





If a, b and c are distinct numbers in A.P. and a^2, b^2 and c^2 are in H.P.
then which of the following is/are true:

A. $a, -b/2, c$ are in G.P.

B. $a, 2b, c$ are in G.P.

C. $a, b, -c/2$ are in G.P.

D. $a, b, 2c$ are in G.P.

$$2b = a + c$$

8

$$(b-a) = (c-b)$$

$$a^2, b^2, c^2 \rightarrow H.P.$$

$$\Rightarrow \frac{1}{a^2}, \frac{1}{b^2}, \frac{1}{c^2} \rightarrow A.P.$$

$$\frac{1}{b^2} - \frac{1}{a^2} = \frac{1}{c^2} - \frac{1}{b^2}$$

$$\frac{a^2 - b^2}{a^2 b^2} = \frac{b^2 - c^2}{b^2 c^2}$$

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

$$ac^2 + bc^2 = ab + ac$$

$$\Rightarrow ac(c-a)$$

$$= b(a^2 - c^2)$$

$$\Rightarrow -ac(a-c)$$

$$= b(a-c)(a+c)$$

$$\Rightarrow -ac = ab + bc$$

$$\Rightarrow \boxed{ab + bc + ca = 0}$$

$$b(\underline{a+c}) + ac = 0$$

$$b(2b) + ac = 0$$

$$b^2 = -\frac{ac}{2}$$

$$\boxed{b^2 = (a)(-\frac{c}{2})} \rightarrow$$

$$\boxed{a, b, -\frac{c}{2}} \rightarrow \textcircled{G.P}$$



A.M., G.M. & H.M. of two numbers



Definition and Understanding

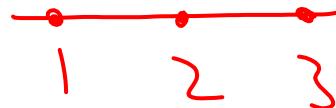
Arithmetic Mean

$a, A, b \rightarrow A.P.$

$$A = \frac{a+b}{2}$$

$$2A = a+b$$

$$A = \frac{a+b}{2}$$







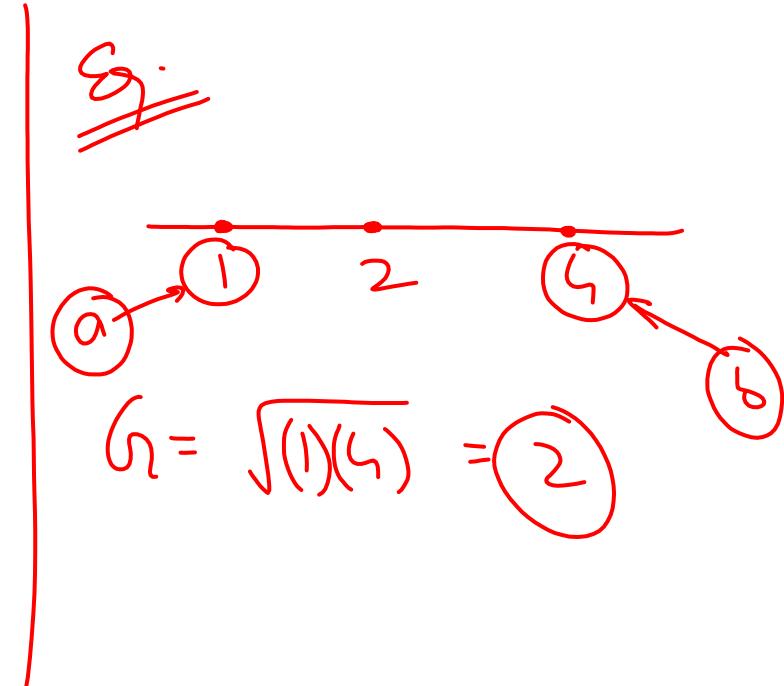
Definition and Understanding

Geometric Mean for positive numbers:

$a, G, b \rightarrow G.P.$

$$G^2 = a \cdot b$$

$$G = \sqrt{ab}$$







Definition and Understanding

Geometric Mean for negative numbers:

$a, G, b \rightarrow GP$

$$G^2 = ab$$

$$G = -\sqrt{ab}$$

~~Eg.~~

$$\begin{array}{ccc} & \bullet & \bullet & \bullet \\ -9 & -3 & -1 \end{array}$$

$$G^2 = (-9)(-1) = 9$$

$$G = -3$$





Definition and Understanding

Harmonic Mean

$a, H, b \rightarrow HP.$

$\Rightarrow \frac{1}{a}, \frac{1}{H}, \frac{1}{b} \rightarrow AP$

$$2\left(\frac{1}{H}\right) = \left(\frac{1}{a} + \frac{1}{b}\right)$$

$$\frac{2}{H} = \left(\frac{1}{a} + \frac{1}{b}\right)$$

$$H = \frac{2}{\left(\frac{1}{a} + \frac{1}{b}\right)}$$

$$H = \frac{2ab}{a+b}$$





Important Result:

For two numbers a and b if A , G and H are AM, GM and HM then

$$\boxed{G^2 = AH.}$$

$$A = \frac{a+b}{2}, H = \frac{2ab}{a+b}$$

$$G = \sqrt{ab} \rightarrow G^2 = ab$$





The harmonic mean of the roots of the equation

$$(5+\sqrt{2})x^2 - (4+\sqrt{5})x + 8+2\sqrt{5} = 0 \text{ is } (\alpha, \beta)$$

A. 2

B. 3

C. 4

D. 5

$$\alpha + \beta = \left(\frac{4+\sqrt{5}}{5+\sqrt{2}} \right)$$

$$\alpha \beta = \left(\frac{8+2\sqrt{5}}{5+\sqrt{2}} \right)$$

$$HM = \frac{2\alpha\beta}{(\alpha+\beta)}$$

$$= 2 \left(\frac{\frac{8+2\sqrt{5}}{5+\sqrt{2}}}{\frac{4+\sqrt{5}}{5+\sqrt{2}}} \right) = \text{?}$$



Let the harmonic mean and geometric mean of two positive numbers be the ratio 4: 5. Then find the ratio of the two numbers.

A. 2

B. 3

C. 4

D. 5

$$\left\{ \begin{array}{l} H = \frac{2ab}{a+b} \\ G = \sqrt{ab} \end{array} \right.$$

$$\frac{H}{G} = \frac{2\sqrt{ab}}{a+b} = \frac{4}{5}$$

$$5\sqrt{ab} = 2a + 2b$$

$$5 = 2\frac{a}{\sqrt{ab}} + 2\frac{b}{\sqrt{ab}}$$

$$5 = 2\frac{\sqrt{a}}{\sqrt{b}} + 2\frac{\sqrt{b}}{\sqrt{a}}$$

t t

$$s = 2t + \frac{2}{t}$$

$$st = 2t^2 + 2$$

$$2t^2 - st + 2 = 0$$

$$2t^2 - 4t - t + 2 = 0$$

$$(2t-1)(t-2) = 0$$

$$\boxed{t = \frac{1}{2}, 2}$$

$$\sqrt{\frac{a}{b}} = \frac{1}{2}$$

$$\frac{a}{b} = \frac{1}{4}$$

$$\sqrt{\frac{a}{b}} = 2$$

$$\frac{a}{b} = 4$$



For the two numbers a and b ($a > b > 0$), the **A.M.** exceeds their **G.M.** by 5, and the **G.M.** exceeds their **H.M.** by 4. Then find the value of $|a - 2b|$.

A. 20

B. 30

C. 40

D. None of these

$$\left\{ \begin{array}{l} A - G = 5 \\ G - H = 4 \end{array} \right.$$

$$\left\{ \begin{array}{l} G - H = 4 \\ \frac{a+b}{2} - \sqrt{ab} = 5 \end{array} \right.$$

$$\left\{ \begin{array}{l} \frac{a+b}{2} - \sqrt{ab} = 5 \\ \sqrt{ab} - \frac{2ab}{a+b} = 4 \end{array} \right.$$

$$\left\{ \begin{array}{l} \frac{a+b}{2} - \sqrt{ab} = 5 \\ \sqrt{ab} - \frac{2ab}{a+b} = 4 \end{array} \right.$$

$$(a+b) = 2(s + \sqrt{ab})$$

$$\Rightarrow \sqrt{ab} - \frac{2ab}{2(s + \sqrt{ab})} = 4$$

$$\text{Let: } \sqrt{ab} = t$$

$$t - \frac{t^2}{s+t} = 4$$

$$\frac{s+t-t-t}{s+t} = 4$$

$$st = 20 + 4t$$

$$t = 20$$

$$\Rightarrow \sqrt{ab} = 20$$

$$ab = 400$$

Now:

$$a+b = 2(s + \sqrt{ab})$$

$$= 2(5 + 20)$$

$$a+b = 50$$

$$a = 40 \\ b = 10$$

If the roots of the equation $a(b - c)x^2 + b(c - a)x + c(a - b) = 0$
 (where a, b, c are unequal real numbers) are real and equal and α, β be the
 roots of equation $\underbrace{ax^2 + bx + c = 0, a \neq 0}$ then harmonic mean of $\underline{\underline{\alpha, \beta}}$ is

A. $1 - \alpha\beta$

B. $1 + \alpha\beta$

C. $\alpha\beta - 1$

D. $-1 - \alpha\beta$

$$a(b-c)x^2 + b(c-a)x + c(a-b) = 0$$

$\boxed{x=1}:$ $\uparrow a(b-c) + b(c-a) + c(a-b) = 0$

\Rightarrow Both roots are 'i'

$$\left(\text{Product of roots} \right) = \frac{c(a-b)}{a(b-c)} = 1$$

$$\Rightarrow ac - bc = ab - ac$$

$$\Rightarrow 2ac = ab + bc$$

$$\Rightarrow \boxed{\frac{2}{b} = \frac{1}{c} + \frac{1}{a}}$$

$$\begin{aligned} & HM(\alpha, \beta) \\ &= \frac{2\alpha\beta}{\alpha+\beta} \\ &= \frac{2(c/a)}{(-b/a)} \\ &= (-c)\left(\frac{2}{b}\right) \end{aligned}$$

$$=(-c)\left(\frac{1}{c} + \frac{1}{a}\right)$$

$$\begin{aligned} &= -1 - \frac{c}{a} \\ &\Rightarrow \boxed{-1 - \alpha\beta} \end{aligned}$$

If **a**, **b** and **c** are distinct positive integers less than or equal to **10**.

The arithmetic mean of a and b is **9**. The geometric mean of a and c is **$6\sqrt{2}$** . If the harmonic mean of b and c is **H**, then find the value of **$19H$** .

A. 175

B. 180

C. 195

D. 200

H·W

A.M., G.M. & H.M. of 'n' numbers





For n numbers a_1, a_2, \dots, a_n

Arithmetic Mean

$$\boxed{n=2}; \quad a_1, a_2 : A = \frac{a_1 + a_2}{2}$$

$a_1, a_2, a_3, \dots, a_n :$

$$\boxed{A = \frac{a_1 + a_2 + a_3 + \dots + a_n}{n}}$$





For n numbers a_1, a_2, \dots, a_n

Geometric Mean

$$\boxed{n=2} : a_1, a_2 \therefore G = (a_1 a_2)^{\frac{1}{2}}$$

$$a_1, a_2, a_3, \dots, a_n \therefore \boxed{G = (a_1 a_2 \cdots a_n)^{\frac{1}{n}}}$$





For n numbers a_1, a_2, \dots, a_n

Harmonic Mean

$$\boxed{n=2}: a_1, a_2 : H = \frac{2a_1 a_2}{a_1 + a_2} = \frac{2}{\left(\frac{1}{a_1} + \frac{1}{a_2}\right)}$$

$$(a_1, a_2, a_3, \dots, a_n) : H = \frac{n}{\left(\frac{1}{a_1} + \frac{1}{a_2} + \dots + \frac{1}{a_n}\right)}$$





Let a, b, c be positive integers such that b/a is an integer. If a, b, c are in geometric progression and the arithmetic mean of a, b, c is $b + 2$, then find

the value of $\left(\frac{a^2 + a - 14}{a+1}\right)$

$$\frac{a+b+c}{3} = b+2$$

$$a+b+c = 3b+6$$

$$a-2b+c = 6$$

$$a, b, c \rightarrow 6 ?$$

$$\{a, ar, ar^2\}$$

$$a-2(ar)+ar^2 = 6$$

$$a(1-2r+r^2) = 6$$

$$a(r-1)^2 = 6$$

$$r=2 \rightarrow a=6 \quad \checkmark$$

$$r=3 \rightarrow a=\frac{3}{2} \times \quad \times$$

$$r=4 \rightarrow a=\frac{2}{3} \times \quad \times$$

;

;

Now:

$$\frac{a^2+a-14}{a+1}$$



$$\frac{36+6-14}{6+1}$$

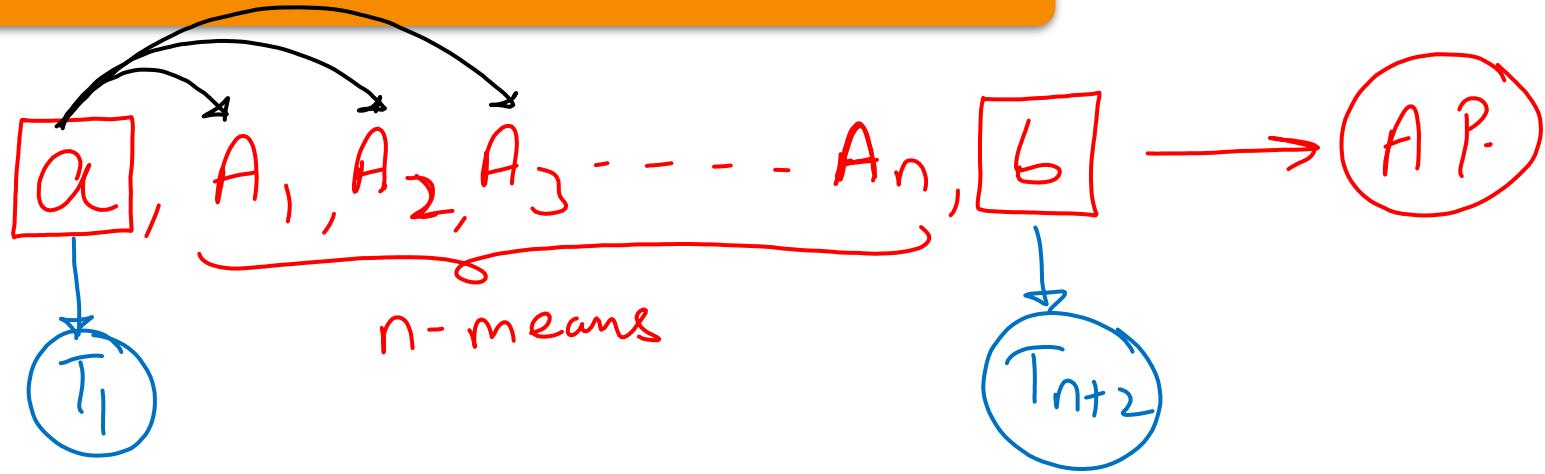
$$= 5$$

Inserting n-means between two numbers





n-Arithmetic Mean between a & b



$$T_{n+2} = a + ((n+2)-1)d$$

$$b = a + (n+1)d$$

*

$$d = \frac{b-a}{n+1}$$

$$A_1 = a + d$$

$$A_2 = a + 2d$$

⋮

$$A_n = a + nd$$

Insert three arithmetic means between the numbers **3** and **19**.

$$\overbrace{}^n \text{ } n=3$$

$$d = \frac{b-a}{n+1}$$

$$= \frac{19-3}{3+1}$$

$$= \textcircled{4}$$

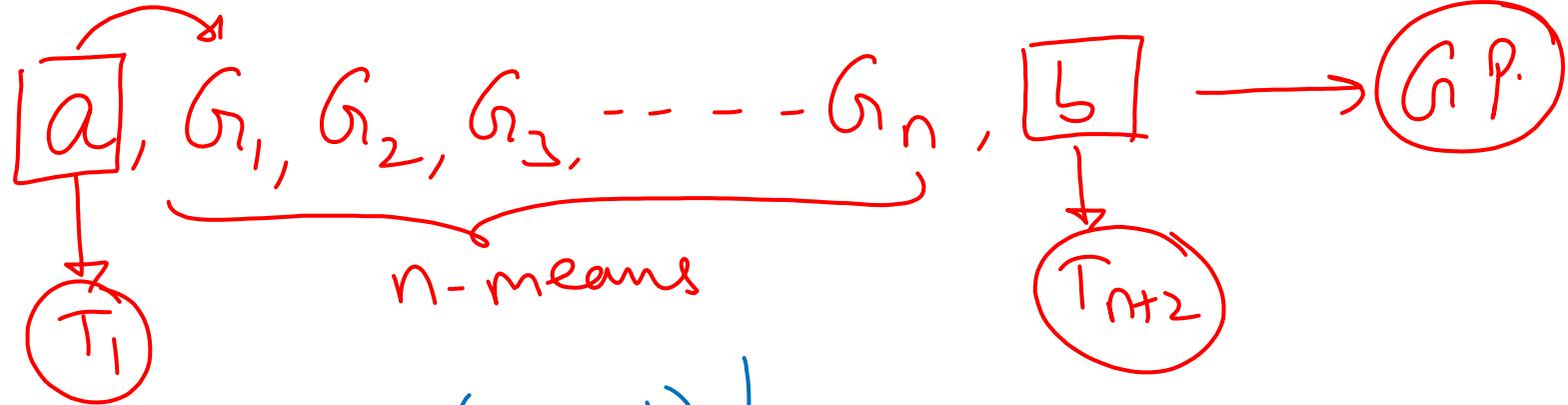
$$\overbrace{}^a \text{ } \overbrace{}^b$$

$$3, A_1, A_2, A_3, 19$$

$$\left\{ \begin{array}{l} A_1 = 3 + 4 = 7 \\ A_2 = 11 \\ A_3 = 15 \end{array} \right.$$



n-Geometric Mean between a & b



$$\left| \begin{array}{l} T_{n+2} = a R^{(n+2-1)} \\ b = a R^{n+1} \end{array} \right. \quad | \quad R^{n+1} = \frac{b}{a}$$

*
$$R = \left(\frac{b}{a} \right)^{\frac{1}{n+1}}$$

Now:

$$G_1 = aR$$

$$G_2 = aR^2$$

⋮

$$G_n = aR^n$$

⋮

Insert three geometric means between the numbers 1 and 256.

$$\overline{\text{I}} \rightarrow n = 3$$

$$R = \left(\frac{b}{a}\right)^{\frac{1}{n+1}}$$

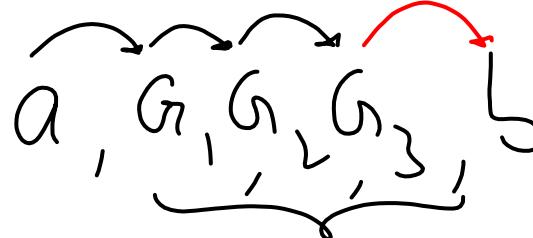
$$R = \left(\frac{256}{1}\right)^{\frac{1}{4}}$$

$$R^4 = 256$$

$$\downarrow \quad \downarrow$$

$$(a) \quad (b)$$

$$\boxed{R = 4}$$



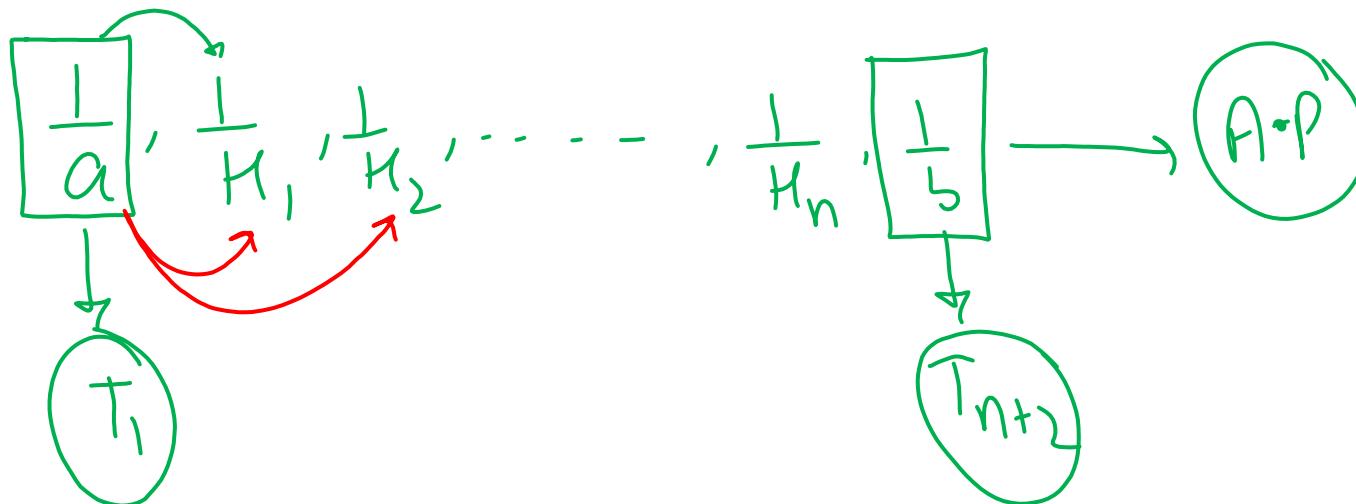
$$G_1 = 4; G_2 = 16; G_3 = 64$$



n-Harmonic Mean between a & b

$a, H_1, H_2, H_3, \dots, H_n, b$ → H.P.

$\underbrace{H_1, H_2, H_3, \dots, H_n}_{n\text{-means}}$



$$T_{n+2} = \frac{1}{a} + ((n+2)-1)d$$

$$\frac{1}{b} = \frac{1}{a} + (n+1)d$$

*
$$d = \frac{\left(\frac{1}{b} - \frac{1}{a}\right)}{(n+1)}$$

$$\frac{1}{H_1} = \frac{1}{a} + d$$

$$\frac{1}{H_2} = \frac{1}{a} + 2d$$

⋮

$$\boxed{\frac{1}{H_n} = \frac{1}{a} + nd}$$

Insert four harmonic means between the numbers $\frac{2}{3}$ and $\frac{2}{13}$.

$n=4$

$n=4$

a

$\frac{1}{5}$

$$d = \frac{\frac{1}{b} - \frac{1}{a}}{n+1}$$

$$= \frac{\left(\frac{13}{2} - \frac{3}{2}\right)}{5}$$

$$= 1$$

$$\frac{1}{H_1} = \frac{3}{2} + 1 = \frac{5}{2}$$

$$\frac{1}{H_2} = \frac{3}{2} + 2 = \frac{7}{2}$$

$$\frac{1}{H_3} = \frac{3}{2} + 3 = \frac{9}{2}$$

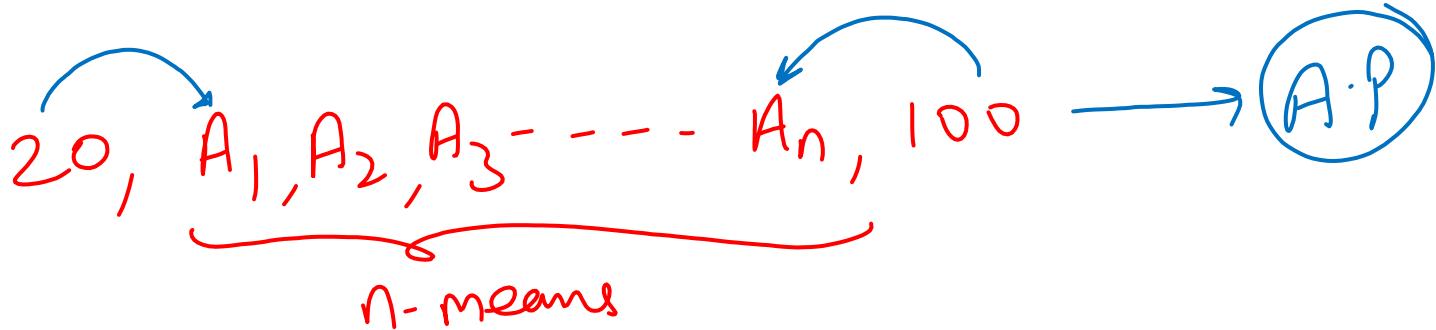
$$\frac{1}{k_4} = \frac{3}{2} + 4 = \frac{11}{2}$$

$$\cdot \begin{cases} k_1 = \frac{2}{5} \\ k_2 = \frac{2}{7} \\ k_3 = \frac{2}{9} \\ k_4 = \frac{2}{11} \end{cases}$$



If n A.M.s are inserted between 20 and 100 such that

first means : last mean = 1 : 2, find n .



$$\frac{A_1}{A_n} = \frac{1}{2} \Rightarrow \frac{20+d}{100-d} = \frac{1}{2} \Rightarrow 40+2d = 100-d$$

$$3d = 60$$

$$d = \frac{100-20}{n+1}$$

$$d=20$$

$$\Rightarrow 20 = \frac{80}{n+1}$$

$$\Rightarrow n+1 = 4$$

$$\therefore \boxed{n=3}$$



#JEEliveDaily Schedule



11th



Namo Sir | Physics

6:00 - 7:30 PM



Ashwani Sir | Chemistry

7:30 - 9:00 PM



Sameer Sir | Maths

9:00 - 10:30 PM

12th



Jayant Sir | Physics

1:30 - 3:00 PM



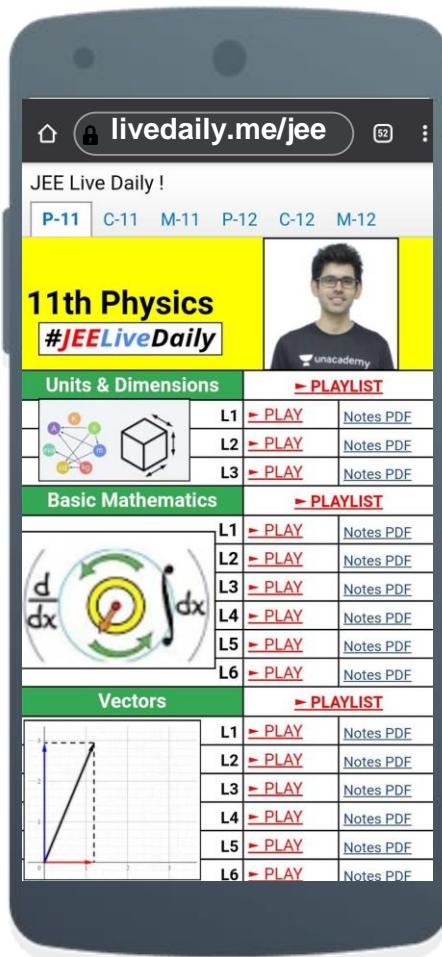
Anupam Sir | Chemistry

3:00 - 4:30 PM



Nishant Sir | Maths

4:30 - 6:00 PM



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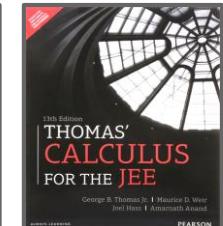
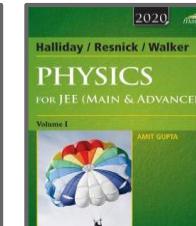
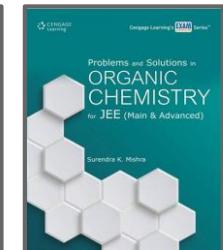
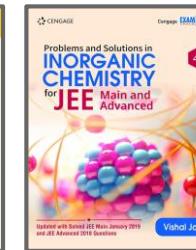
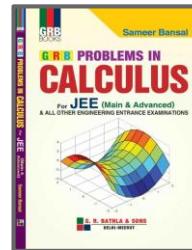
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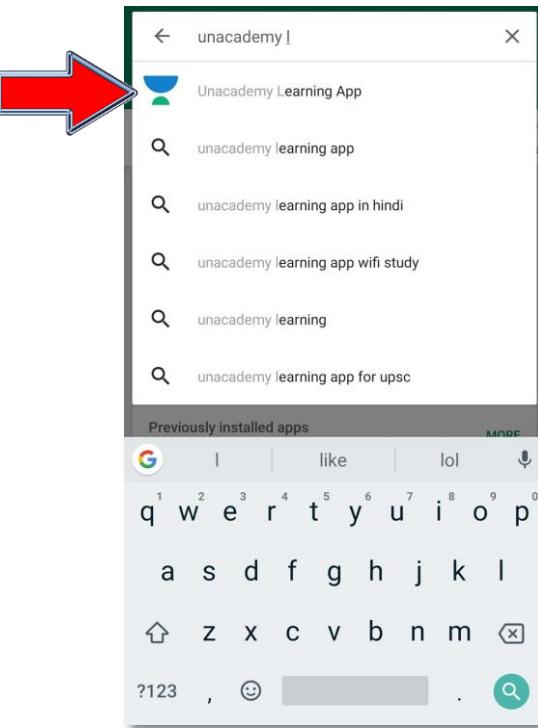


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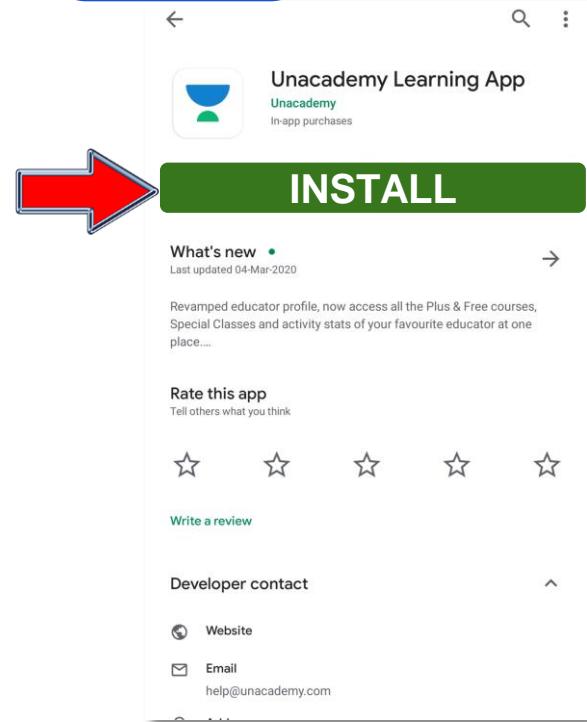


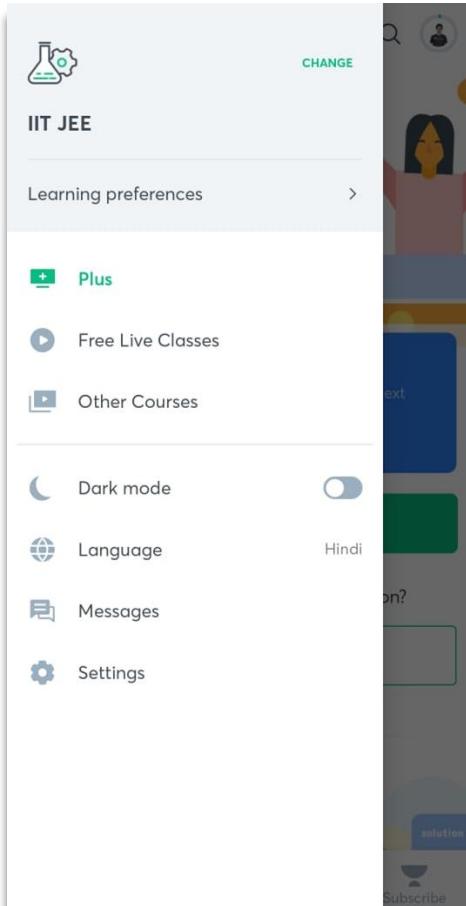
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