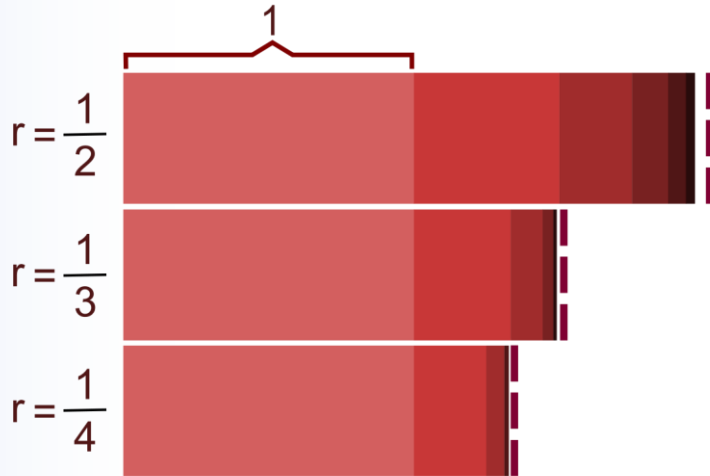


Important Formulas and Method of Difference

Sequences & Series

8



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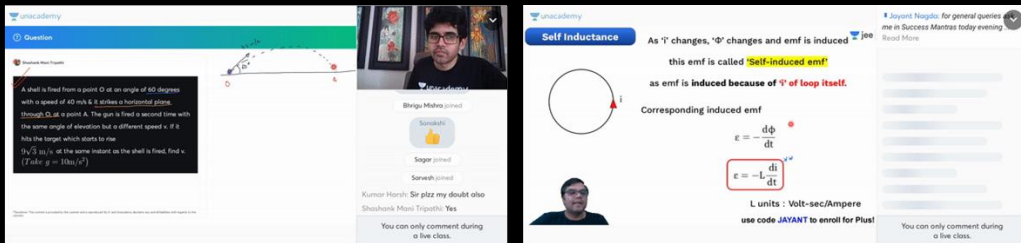
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Questions

A shell is fired from a point O at an angle of 60 degrees with a speed of 40 m/s & it strikes a horizontal plane through O at a point A. The gun is fired a second time with the same angle of elevation but a different speed v . If it hits the target which starts to rise $(\sqrt{3}/2) \text{ m/s}^2$ at the same instant as the shell is fired, find v . (Take $g = 10 \text{ m/s}^2$)

Shreyas Mishra joined

Sagar joined

Saravali joined

Kumar Harsh: Sir plz my doubt also

Shashank Masi Tripathi: Yes

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Self Inductance

As \vec{I} changes, $\vec{\Phi}$ changes and emf is induced

this emf is called **Self-induced emf**

as emf is induced because of \vec{I} of loop itself.

Corresponding induced emf

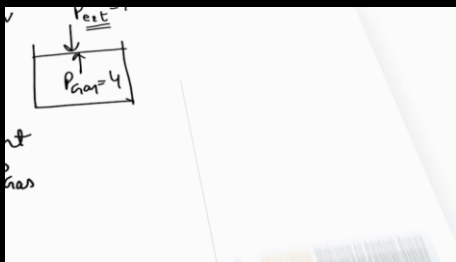
$$\mathcal{E} = -\frac{d\Phi}{dt}$$

$$\mathcal{E} = -L \frac{dI}{dt}$$

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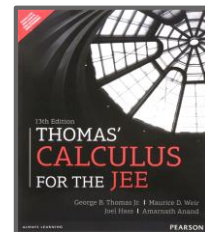
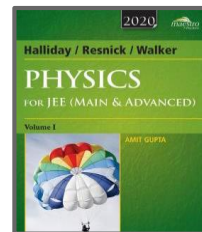
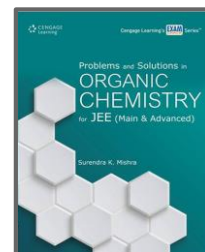
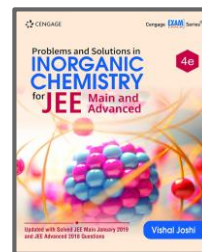
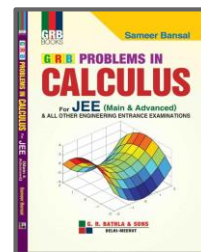
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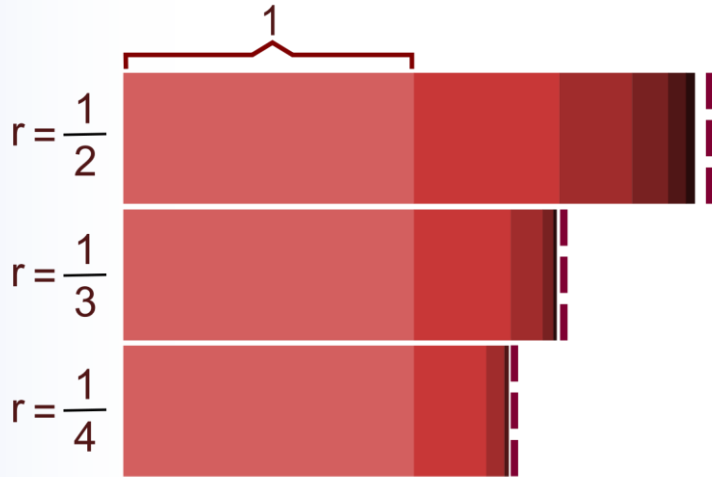
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Inequalities of AM GM HM

Sequences & Series

8



LET'S BEGIN!!

HomeWork Question





If n is positive integer, then show that: $2^{2n+1} > 1 + (2n+1) \cdot 2^n$

$$2^{2n+1} > 1 + \underbrace{(2n+1)} \cdot 2^n$$

$$\left(\frac{2^{2n+1} - 1}{2n+1} \right) > (2)^n$$

$$\frac{1 + 2 + 2^2 + 2^3 + \dots + 2^{2n}}{(2n+1)} >$$

$$\left(1 \cdot 2 \cdot 2^2 \cdot 2^3 \cdot \dots \cdot 2^{2n} \right)^{\frac{1}{2n+1}}$$

$$\Rightarrow \frac{\frac{1(2^{2n+1} - 1)}{(2-1)}}{(2n+1)} > \left(2^{1+2+3+\dots+2n} \right)^{\frac{1}{2n+1}}$$

$$\frac{2^{2n+1} - 1}{2^{n+1}} \rightarrow \left(\frac{\cancel{2n} \cancel{(2n+1)}}{2} \right) \frac{1}{\cancel{(2n+1)}}$$

$$\left(\frac{2^{2n+1} - 1}{2^{n+1}} \right) > 2^n$$

$$S_n = \sum T_n$$





$$S_n = \sum T_n$$

$$S_n = \sum_{n=1}^n T_n$$

$$S_n = T_1 + T_2 + T_3 + \dots + T_n$$



Important Summations

1.

$\Sigma (1)$

$$\sum_{k=1}^n (1) = \underbrace{1 + 1 + 1 + \dots + 1}_{n\text{-times}}$$
$$= \textcircled{n}$$



Important Summations

2.

$\Sigma (n)$

$$\sum_{n=1}^n (n) = 1 + 2 + 3 + \dots + n$$
$$= \boxed{\frac{n(n+1)}{2}}$$

Eg $\sum_{n=1}^{10} n = \frac{10 \times 11}{2} = 55$

$$\sum_{t=1}^{10} t = 1 + 2 + 3 + \dots + 10$$

$$= \frac{10 \times 11}{2} = \textcircled{55}$$

$$\sum_{k=1}^m k = \frac{m(m+1)}{2}$$

Eg. $\sum_{k=1}^{10} n = \textcircled{10n}$



Important Summations

3.

$$\Sigma (n)^2$$

$$\sum_{n=1}^n (n)^2 = 1^2 + 2^2 + 3^2 + \dots + n^2$$

$$= \boxed{\frac{n(n+1)(2n+1)}{6}}$$

$$* (n+1)^3 - (n)^3 = \cancel{n^3} + 3n^2 + 3n + 1 - \cancel{n^3}$$

Now

$$(n+1)^3 - n^3 = 3n^2 + 3n + 1$$

$$\cancel{2^3} - \cancel{1^3} = 3(1)^2 + 3(1) + 1$$

$$\cancel{3^3} - \cancel{2^3} = 3(2)^2 + 3(2) + 1$$

$$\cancel{4^3} - \cancel{3^3} = 3(3)^2 + 3(3) + 1$$

$$\vdots \quad \vdots \quad \vdots$$

$$\frac{(n+1)^3 - \cancel{(n)^3}}{(n+1)^3 - 1} = \frac{3(n)^2 + 3(n) + 1}{3(\sum n^2) + 3(\sum n) + n}$$

$$(n+1)^3 - 1 = 3\left(\sum n^2\right) + 3\left(\frac{n(n+1)}{2}\right) + n$$

$$\Rightarrow (n+1)^3 - \underbrace{(1+n)}_0 - 3\left(\frac{n(n+1)}{2}\right) = 3\left(\sum n^2\right)$$

$$\Rightarrow (n+1)\left[(n+1)^2 - 1 - \frac{3n}{2}\right] = 3\left(\sum n^2\right)$$

$$\Rightarrow (n+1)^2 \left[\frac{2n^2 + 4n + \cancel{2} - \cancel{2} - 3n}{2 \times 3} \right] = \left(\sum n^2\right)$$



Important Summations

4.

$$\Sigma (n)^3$$

$$\sum_{n=1}^n n^3 = 1^3 + 2^3 + 3^3 + \dots + n^3$$

$$= \left(\frac{n(n+1)}{2} \right)^2$$

$$= \left(\Sigma n \right)^2$$

$$(n+1)^4 - n^4 =$$



Properties of Σ

$$\textcircled{1} \sum_{n=1}^n (an^2 + bn)$$

$$(a+b) + (a(2)^2 + b(2)) + (a(3)^2 + b(3)) \\ + \dots + (a(n)^2 + b(n))$$

$$a(\Sigma n^2) + b(\Sigma n)$$



Find the sum of the series to n terms whose general term is
 $n^2 - 2n + 2$

$$\begin{aligned} T_n &= (n^2 - 2n + 2) \\ S_n &= \sum_{n=1}^n T_n \\ &= \sum_{n=1}^n (n^2 - 2n + 2) \end{aligned} \quad \left| \quad \begin{aligned} &= \sum n^2 - 2 \sum n \\ &\quad + 2 \sum 1 \\ &= \frac{n(n+1)(2n+1)}{6} \\ &\quad - 2 \left(\frac{n(n+1)}{2} \right) \\ &\quad + 2n \end{aligned} \right.$$



Find the **value of the expression**

$$\sum_{i=1}^n \sum_{j=1}^i \sum_{k=1}^j 1$$

$$\sum_{l=1}^n \sum_{j=1}^i \left(\sum_{k=1}^j 1 \right)$$

↓

$$\sum_{l=1}^n \left(\sum_{j=1}^i j \right)$$

$$\sum_{l=1}^n \frac{l(l+1)}{2}$$

$$\frac{1}{2} \left(\sum_{l=1}^n l^2 + \sum_{l=1}^n l \right)$$

$$\frac{1}{2} \left(\frac{n(n+1)(2n+1)}{6} + \frac{n(n+1)}{2} \right)$$

$$\frac{1}{2} \left(\frac{n(n+1)}{2} \right) \left(\frac{2n+1}{3} + 1 \right)$$

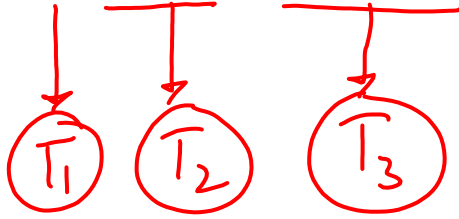
$$\frac{n(n+1)}{2 \times 2} \left(\frac{2n+4}{3} \right)$$

$$\boxed{\frac{n(n+1)(n+2)}{6}}$$



Find the sum of **n terms** of the series

$$1 + (1 + 2) + (1 + 2 + 3) + \dots$$



$$S_n = \sum_{r=1}^n T_r$$

$$T_1 = 1$$

$$T_2 = 1 + 2$$

$$T_3 = 1 + 2 + 3$$

$$\vdots$$

$$T_r = 1 + 2 + 3 + \dots + r$$

$$= \frac{r(r+1)}{2}$$

Now.

$$S_n = \sum_{r=1}^n \frac{r(r+1)}{2}$$

$$= \frac{1}{2} \left[\sum_{r=1}^n r^2 + \sum_{r=1}^n r \right]$$

$$= \frac{1}{2} \left[\frac{n(n+1)(2n+1)}{6} + \frac{n(n+1)}{2} \right]$$

$$S_n = \frac{n(n+1)(n+2)}{6}$$



If S_n denote the **sum of the cubes** of the first n natural numbers and

s_n denotes the **sum of the first n natural numbers**. Then

$$\sum_{r=1}^n \frac{S_r}{s_r} \text{ is}$$

✓ **A.** $\frac{n(n+1)(n+2)}{6}$

B. $\frac{n(n+1)}{2}$

C. $\frac{n^2 + 3n + 2}{6}$

D. None of these

$$S_n = \left(\frac{n(n+1)}{2} \right)^2$$

$$s_n = \left(\frac{n(n+1)}{2} \right)$$

$$\frac{S_n}{s_n} = \frac{n(n+1)}{2}$$

$$\sum_{r=1}^n \frac{S_r}{s_r}$$

$$= \sum \frac{r(r+1)}{2}$$

$$= \frac{n(n+1)(n+2)}{6}$$



Find the sum of the series to n terms (where n is even)

$$1^2 + 2 \cdot 2^2 + 3^2 + 2 \cdot 4^2 + 5^2 + 2 \cdot 6^2 + \dots$$

$$1^2 + 2(2^2) + 3^2 + 2(4)^2 + 5^2 + 2(6)^2 \\ + \dots + 2 \cdot (2m)^2$$

$$\underline{\underline{\text{Let: } n = 2m}}$$

$$\left[1^2 + 2^2 + 3^2 + \dots + (2m)^2 \right] \\ + \left[2^2 + 4^2 + 6^2 + \dots + (2m)^2 \right]$$

$$= \frac{(2m)(2m+1)(4m+1)}{6}$$

$$+ 2^2 [1^2 + 2^2 + 3^2 + \dots + m^2]$$

$$= \frac{\cancel{2} \underline{m} (\cancel{2} \underline{m+1}) (\cancel{4} \underline{m+1})}{\cancel{6} \text{ } 3} + \cancel{4}^2 \frac{\underline{m} (\underline{m+1}) (\underline{2m+1})}{\cancel{3} \text{ } \cancel{6}}$$

$$= \frac{m(2m+1)}{3} [4m+1 + 2m+2]$$

$$= \frac{m(2m+1)(2m+1)}{2}$$

$$= \boxed{m(2m+1)^2}$$

$$m \rightarrow \frac{n}{2}$$

$$= \boxed{\frac{n}{2}(n+1)^2}$$

Method of Difference





Method of Difference

This method helps in finding the general term of a sequence.

1. If the k^{th} difference of consecutive terms is in A.P.

T_n : Polynomial of degree $(K+1)$



Method of Difference

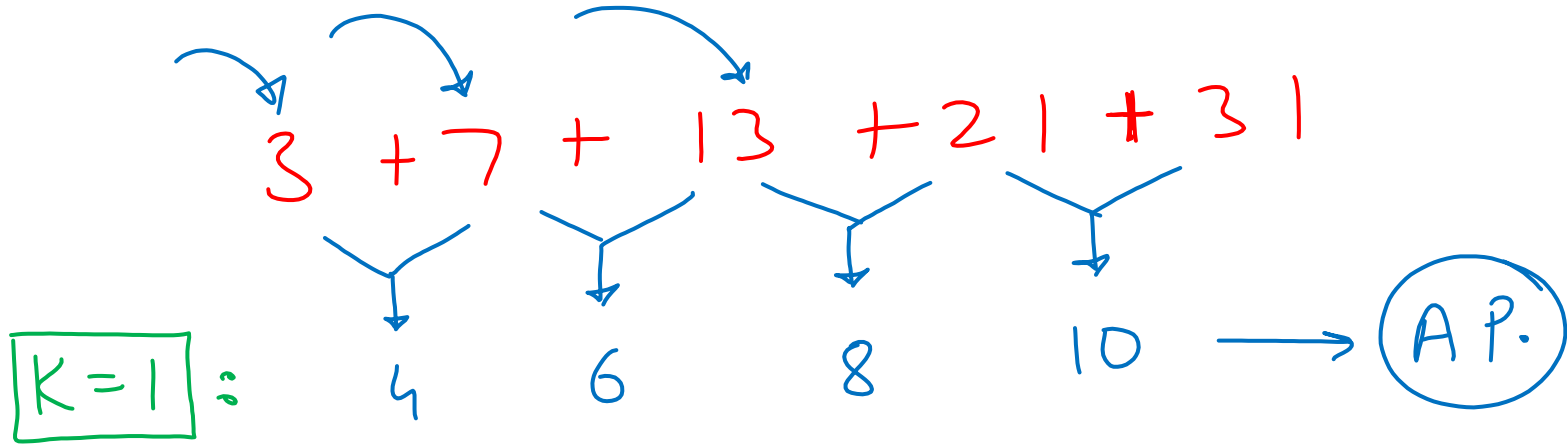
This method helps in finding the general term of a sequence.

2. If the k^{th} difference of consecutive terms is in G.P.

$$T_n = a(r)^{n-1} + \left(\text{Polynomial of degree } (k-1) \right)$$



Find the sum to n-terms : $3 + 7 + 13 + 21 + 31 \dots$



$T_n = \text{Polynomial of degree two}$

$$T_n = an^2 + bn + c$$

$$\begin{array}{l} T_1 = a + b + c = 3 \\ T_2 = 4a + 2b + c = 7 \\ T_3 = 9a + 3b + c = 13 \end{array} \left. \begin{array}{l} \rightarrow 3a + b = 4 \\ \rightarrow 5a + b = 6 \end{array} \right\} \rightarrow 2a = 2$$

$$\boxed{a=1} \Rightarrow \boxed{b=1} \Rightarrow \boxed{c=1}$$

$$\Rightarrow \boxed{T_n = n^2 + n + 1}$$

$$S_n = \sum T_n$$

$$= \sum (n^2 + n + 1)$$

$$= \frac{n(n+1)(2n+1)}{6} + \frac{n(n+1)}{2} + n$$



Find the sum to n-terms : **1 + 4 + 10 + 22 + 46**

$$1 + 4 + 10 + 22 + 46 + \dots$$

$K=1$:

3 6 12 24 \rightarrow (G.P.)

$r=2$

$$T_n = a(2)^{n-1} + b$$

$$\left. \begin{array}{l} T_1 = a + b = 1 \\ T_2 = 2a + b = 4 \end{array} \right\} \rightarrow \boxed{a = 3} \Rightarrow \boxed{b = -2}$$

$$\boxed{T_n = 3(2)^{n-1} - 2}$$

$$\therefore S_n = \sum (3 \cdot 2^{n-1} - 2)$$

$$S_n = 3 \sum_{n=1}^n 2^{n-1} - \sum_{n=1}^n 2$$

$$= 3(1 + 2^1 + 2^2 + \dots + 2^{n-1}) - 2 \sum 1$$

$$= 3 \left(\frac{1(2^n - 1)}{(2 - 1)} \right) - 2n$$

$$= \boxed{3 \cdot 2^n - 3 - 2n}$$



Find the sum to n-terms : $2 + 12 + 36 + 80 + 150 + 252 + 392 \dots\dots$

HW

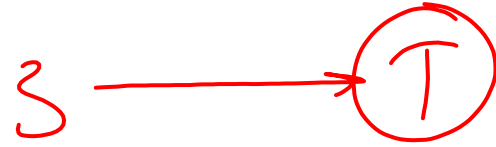
$$2 + 12 + 36 + 80 + 150 + 252 + 392 + \dots$$

$$\begin{array}{cccccc} & \swarrow & \searrow & \swarrow & \searrow & \swarrow & \searrow \\ & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 10 & 24 & 44 & 70 & 102 & 140 \end{array}$$

$$\boxed{K=2} :$$

$$\begin{array}{ccccc} & \swarrow & \searrow & \swarrow & \searrow \\ & \downarrow & \downarrow & \downarrow & \downarrow \\ 14 & 20 & 26 & 32 & 38 \end{array}$$

→ A.P.



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7:30 - 9:00 PM



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1:30 - 3:00 PM



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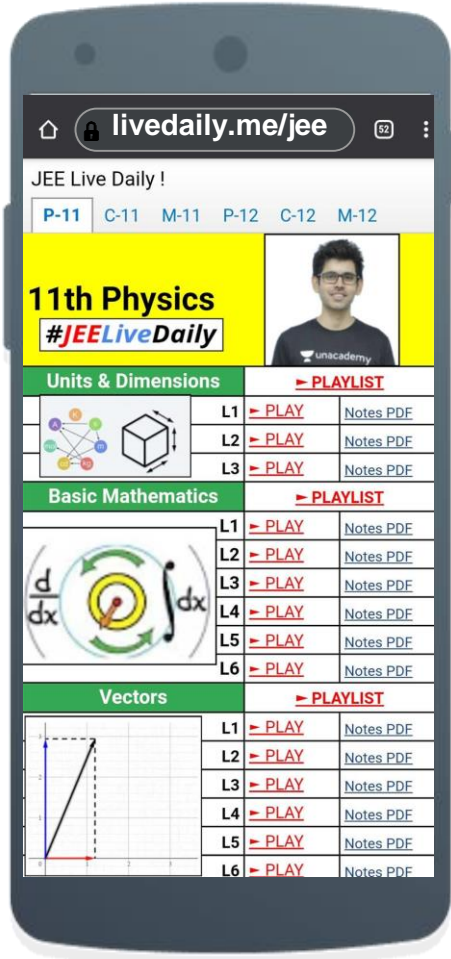
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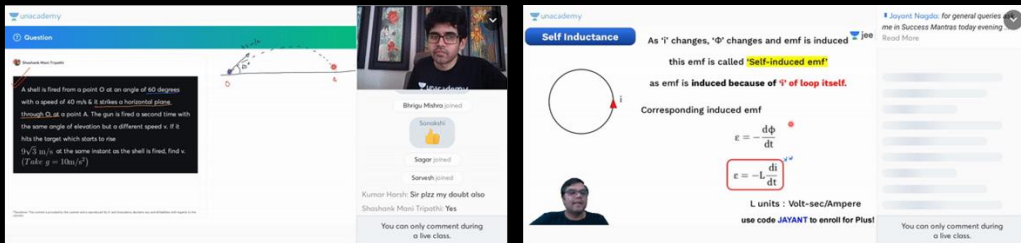
Nishant Sir | Maths

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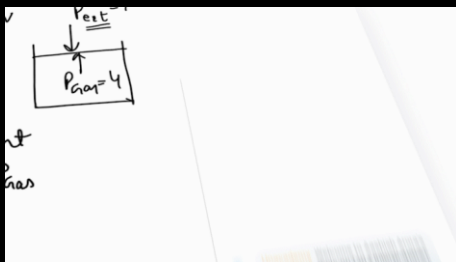
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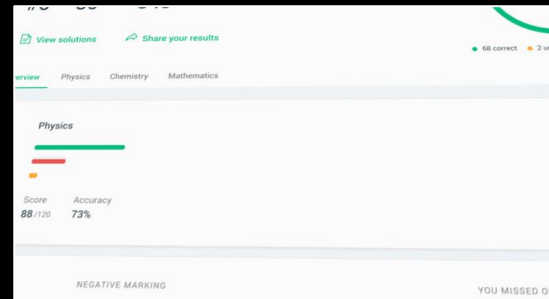
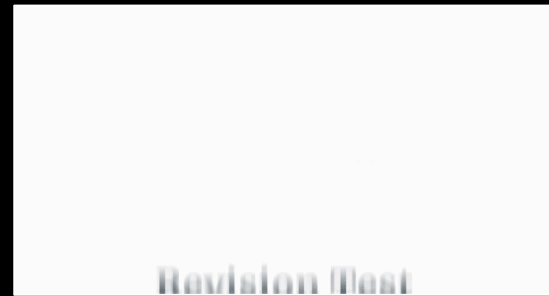


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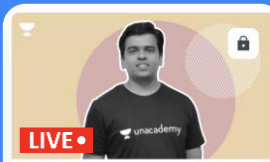


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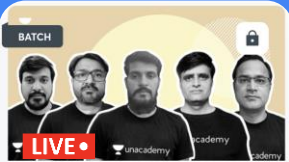
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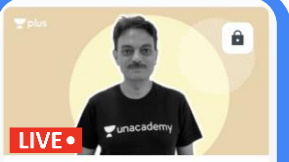
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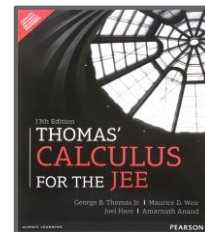
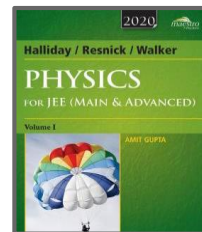
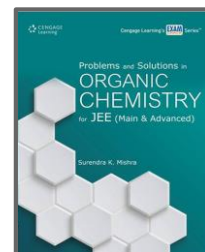
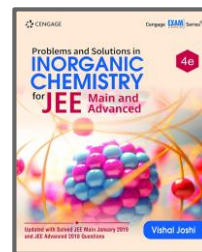
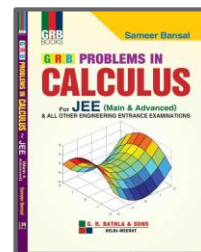
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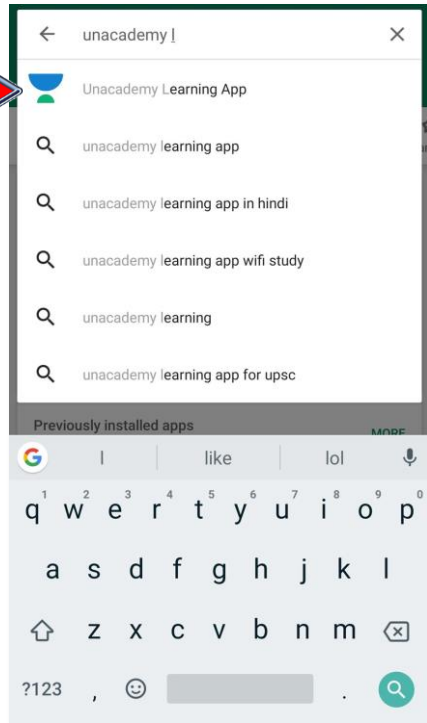


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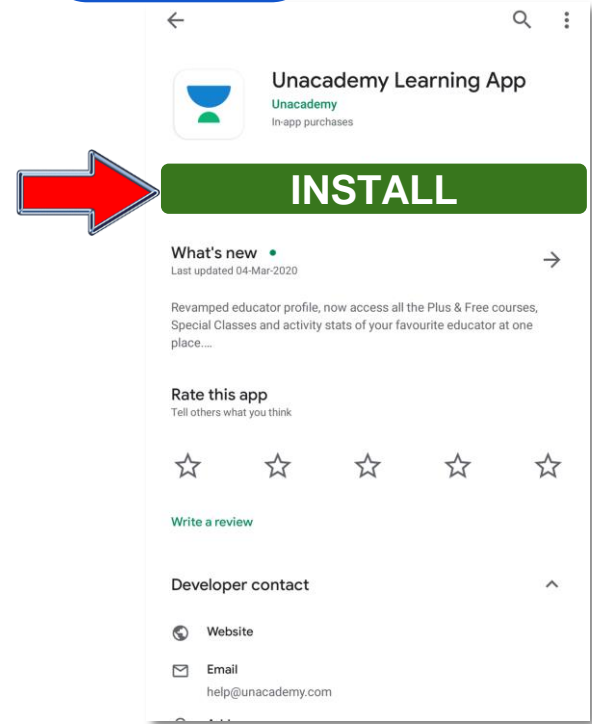


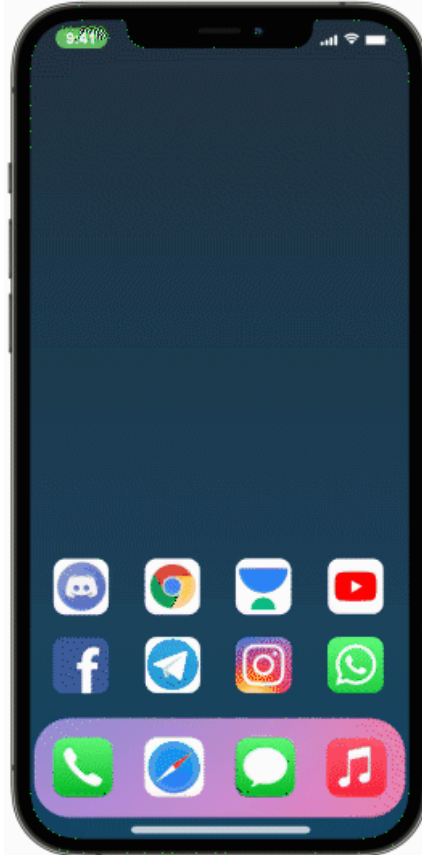
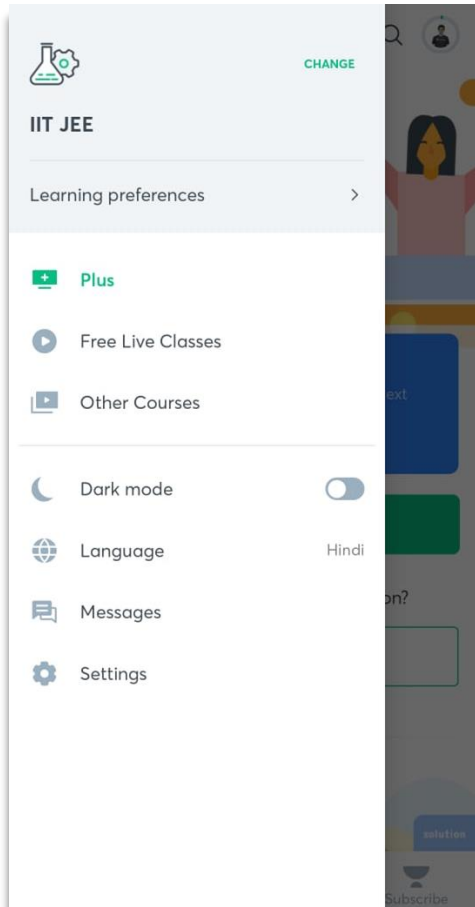
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