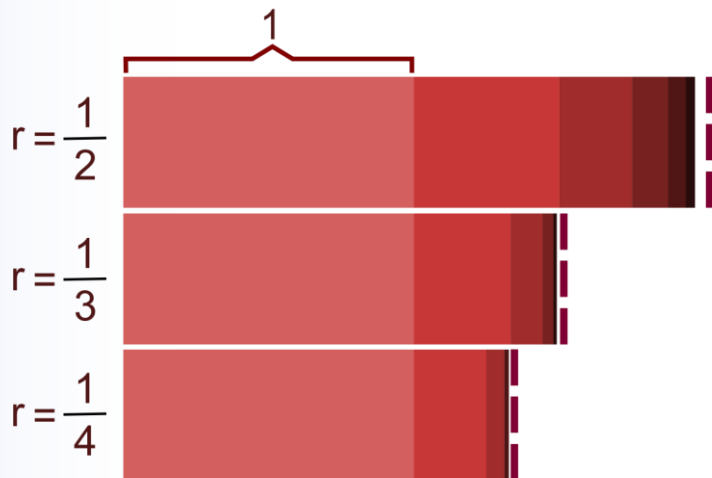


Telescoping Series (V_n Method)

Sequences & Series

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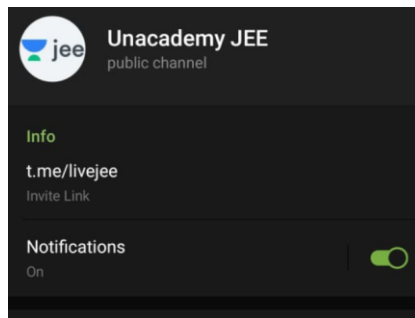
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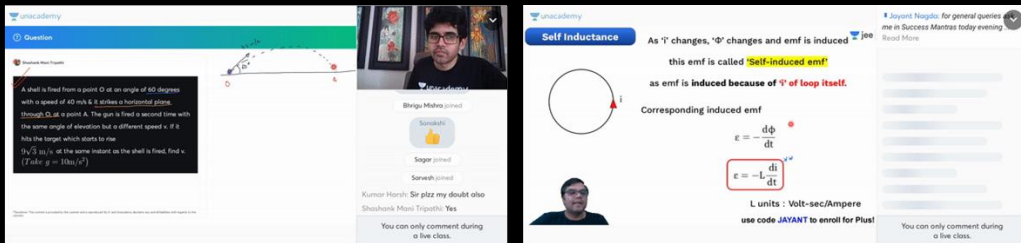
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Question

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 $g = 10 \text{ m/s}^2$)

Self Inductance

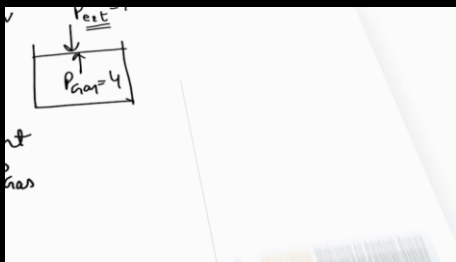
As \vec{I} changes, $\vec{\Phi}$ changes and emf is induced. This emf is called **Self-induced emf** as emf is induced because of \vec{I} of loop itself.

Corresponding induced emf

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

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

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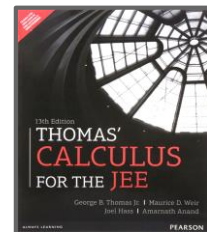
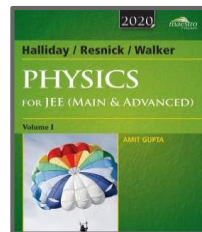
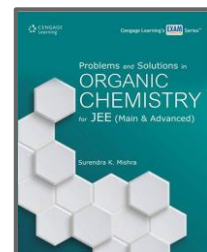
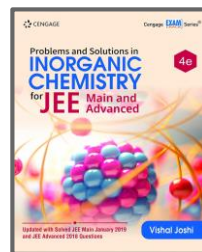
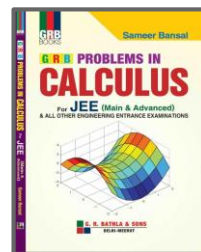
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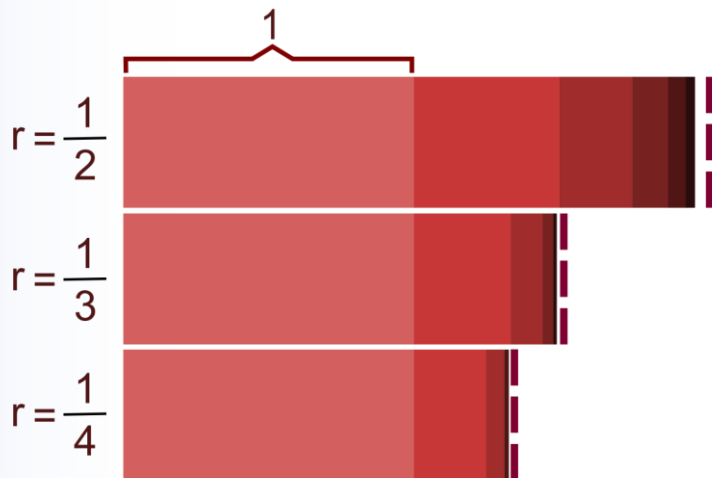
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Telescoping Series (V_n Method)

Sequences & Series

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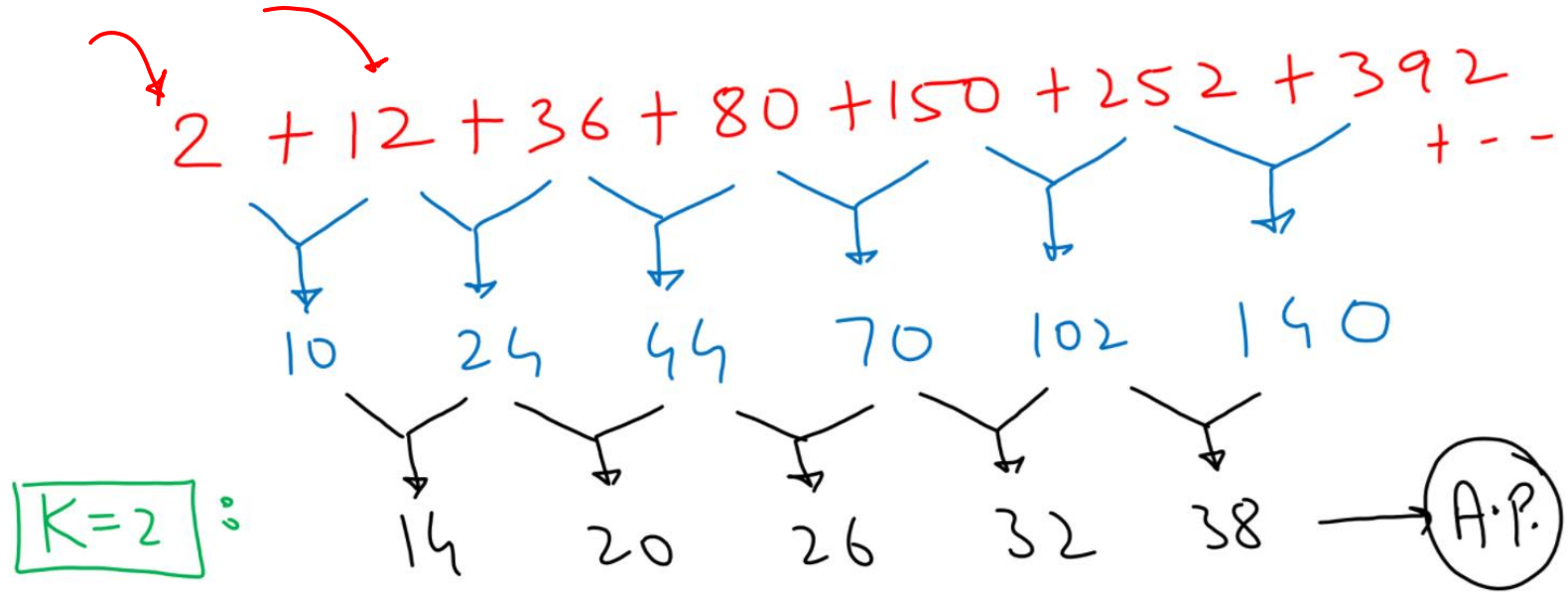


HomeWork Questions





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



$$T_n = an^3 + bn^2 + cn + d$$

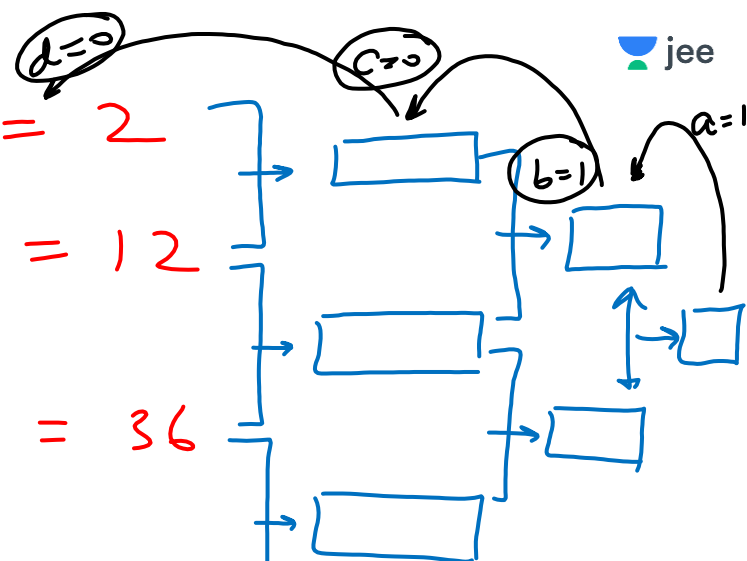
$$T_1 = a + b + c + d = 2$$

$$T_2 = 8a + 4b + 2c + d = 12$$

$$T_3 = 27a + 9b + 3c + d = 36$$

$$T_4 = 64a + 16b + 4c + d = 80$$

$$\Rightarrow T_n = n^3 + n^2$$



$$S_n = \sum T_n$$

$$= \sum (n^3 + n^2)$$

$$= \sum n^3 + \sum n^2$$

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

$$= \frac{n(n+1)(n+2)(3n+1)}{12}$$

Telescoping Series





Find the sum upto n terms: $\frac{1}{1 \cdot 2} + \frac{1}{2 \cdot 3} + \frac{1}{3 \cdot 4} + \dots$

$$\frac{1}{(1)(2)} + \frac{1}{(2)(3)} + \frac{1}{(3)(4)} + \dots + \frac{1}{(n)(n+1)}$$

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

$$= 1 - \frac{1}{n+1} = \boxed{\frac{n}{n+1}}$$



Telescoping Series

A telescoping series is a series whose partial sums eventually only have a fixed number of terms after **cancellation**.



Find the sum upto n terms: $\frac{1}{1 \cdot 4} + \frac{1}{4 \cdot 7} + \frac{1}{7 \cdot 10} + \dots + \frac{1}{(\quad)(\quad)}$

$$1, 4, 7, \dots \quad t_n = 1 + (n-1)3 \\ = (3n-2)$$

$$\frac{1}{3} \left[\frac{3}{1 \cdot 4} + \frac{3}{4 \cdot 7} + \frac{3}{7 \cdot 10} + \dots + \frac{3}{(3n-2)(3n+1)} \right]$$
$$= \frac{1}{3} \left[\left(\frac{1}{1} - \frac{1}{4} \right) + \left(\frac{1}{4} - \frac{1}{7} \right) + \left(\frac{1}{7} - \frac{1}{10} \right) + \dots + \left(\frac{1}{3n-2} - \frac{1}{3n+1} \right) \right]$$

$$= \frac{1}{3} \left[1 - \frac{1}{3n+1} \right]$$

$$= \frac{1}{3} \left[\frac{3n+1-1}{3n+1} \right]$$

$$= \boxed{\frac{n}{3n+1}}$$



Sum the following series to n terms $\frac{1}{1 \cdot 3 \cdot 5} + \frac{1}{3 \cdot 5 \cdot 7} + \frac{1}{5 \cdot 7 \cdot 9} + \dots$

?



Type-1 of Telescoping Series

Sum of n terms of a series, each term of which is composed of the product of r factors in A.P., the first factors of the several terms being in the same A.P.

Example:

$$1.2.3 + 2.3.4 + 3.4.5 + \dots$$

$$\underline{\underline{M-1}} \left\{ \begin{aligned} T_n &= n(n+1)(n+2) \\ &= ()n^3 + ()n^2 + ()n + () \end{aligned} \right.$$



Type-1 of Telescoping Series

In such cases we modify our general term by multiplying it with:

$$\left[\frac{(Next\ factor) - (previous\ factor)}{(constant)} \right]$$



Sum the following series to n terms **1.2.3 + 2.3.4 + 3.4.5 +**

$$T_n = n(n+1)(n+2)$$

$$= n(n+1)(n+2) \left[\frac{(n+3) - (n-1)}{4} \right]$$

$$T_n = \frac{n(n+1)(n+2)(n+3)}{4} - \frac{(n-1)(n)(n+1)(n+2)}{4}$$

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

$$T_1 = \frac{\cancel{1 \cdot 2 \cdot 3 \cdot 4}}{4} - \frac{0 \cdot 1 \cdot 2 \cdot 3}{4}$$

$$T_2 = \frac{\cancel{2 \cdot 3 \cdot 4 \cdot 5}}{4} - \frac{\cancel{1 \cdot 2 \cdot 3 \cdot 4}}{4}$$

$$T_3 = \frac{\cancel{3 \cdot 4 \cdot 5 \cdot 6}}{4} - \frac{\cancel{2 \cdot 3 \cdot 4 \cdot 5}}{4}$$

⋮

$$T_n = \frac{n(n+1)(n+2)(n+3)}{4} - \frac{(n-1)(n)(n+1)(n+2)}{4}$$

add

$$. \quad S_n = \frac{n(n+1)(n+2)(n+3)}{4}$$

* why V_n - Method .

$$T_n = n(n+1)(n+2)$$

$$T_n = \underbrace{\frac{n(n+1)(n+2)(n+3)}{4}}_{V_n} - \underbrace{\frac{(n-1)n(n+1)(n+2)}{4}}_{V_{n-1}}$$

**NOTE:**

In questions of Type-1 of telescoping series

$$T_n = V_n - V_{n-1}$$

add {

$$\begin{aligned} T_n &= V_n - V_{n-1} \\ T_1 &= \cancel{V_1} - \cancel{V_0} \\ T_2 &= \cancel{V_2} - \cancel{V_1} \\ T_3 &= \cancel{V_3} - \cancel{V_2} \end{aligned}$$

}

$$T_n = V_n - \cancel{V_{n-1}}$$
$$S_n = V_n - V_0$$



Sum the following series to n terms $1.4.7 + 4.7.10 + 7.10.13 + \dots$

$$1, 4, 7, \dots \quad t_n = 1 + (n-1)3 \\ = 3n-2$$

$$T_n = (3n-2)(3n+1)(3n+4)$$

$$T_n = (3n-2)(3n+1)(3n+4) \left[\frac{(3n+7) - (3n-5)}{12} \right]$$

$$T_n = \frac{(3n-2)(3n+1)(3n+4)(3n+7)}{12}$$

$$- \frac{(3n-5)(3n-2)(3n+1)(3n+4)}{12}$$

$$T_n = V_n - V_{n-1}$$

$$3n-2 \rightarrow 3(n-1)-2$$

$$S_n = V_n - V_0$$

$$= \frac{(3n-2)(3n+1)(3n+4)(3n+7)}{12}$$

$$- \left(\frac{-2 \cdot 1 \cdot 4 \cdot 7}{12} \right)$$



Type-2 of Telescoping Series

Sum of n terms of a series each term of which is composed of the reciprocal of the product of r factors in A.P., the first factors of the several terms being in the same A.P.

Example:

$$\frac{1}{1 \cdot 2 \cdot 3} + \frac{1}{2 \cdot 3 \cdot 4} + \frac{1}{3 \cdot 4 \cdot 5} \dots$$



Type-2 of Telescoping Series

In such cases we modify our general term by multiplying it with:

$$\left[\frac{(\text{last factor}) - (\text{first factor})}{(\text{constant})} \right]$$



Sum the following series to n terms $\frac{1}{1.2.3} + \frac{1}{2.3.4} + \frac{1}{3.4.5} \dots$

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

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

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

$$T_1 = \frac{1}{2} \left[\frac{1}{1 \cdot 2} - \cancel{\frac{1}{2 \cdot 3}} \right]$$

$$T_2 = \frac{1}{2} \left[\cancel{\frac{1}{2 \cdot 3}} - \cancel{\frac{1}{3 \cdot 4}} \right]$$

$$T_3 = \frac{1}{2} \left[\cancel{\frac{1}{3 \cdot 4}} - \cancel{\frac{1}{4 \cdot 5}} \right]$$

$$\vdots$$

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

$$\left. \begin{array}{l} T_1 \\ T_2 \\ T_3 \\ \vdots \\ T_n \end{array} \right\} S_n = \frac{1}{2} \left[\frac{1}{2} - \frac{1}{(n+1)(n+2)} \right]$$

* Idea of V_n :

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

$$T_n = V_n - V_{n+1}$$

**NOTE:**

In questions of Type-2 of telescoping series

$$T_n = V_n - V_{n+1}$$

$$\left\{ \begin{array}{l} T_1 = V_1 - \cancel{V_2} \\ T_2 = \cancel{V_2} - \cancel{V_3} \\ T_3 = \cancel{V_3} - \cancel{V_4} \\ \vdots \\ T_n = \cancel{V_n} - V_{n+1} \end{array} \right.$$

$$S_n = V_1 - V_{n+1}$$



Sum the following series to n terms

$$\frac{1}{1 \cdot 3 \cdot 5} + \frac{1}{3 \cdot 5 \cdot 7} + \frac{1}{5 \cdot 7 \cdot 9} + \dots$$

1, 3, 5, ... $t_n = 1 + (n-1)2 = \boxed{2n-1}$

$$T_n = \frac{1}{(2n-1)(2n+1)(2n+3)} \left[\frac{(2n+3) - (2n-1)}{4} \right]$$

$$T_n = \frac{1}{4(2n-1)(2n+1)} - \frac{1}{4(2n+1)(2n+3)}$$

$$T_n = V_n - V_{n+1}$$

$$\left. \begin{array}{l} 2n-1 \rightarrow 2(n+1)-1 \\ \downarrow \\ \boxed{2n+1} \end{array} \right\}$$

$$S_n = V_1 - V_{n+1}$$

$$S_n = \frac{1}{4 \cdot 1 \cdot 3} - \frac{1}{4(2n+1)(2n+3)}$$



Find the sum upto n terms:

$$\frac{1}{1^3} + \frac{1+2}{1^3+2^3} + \frac{1+2+3}{1^3+2^3+3^3} + \dots$$

$$T_n = \frac{1+2+3+\dots+n}{1^3+2^3+3^3+\dots+n^3}$$
$$= \frac{\sum n}{\sum n^3}$$

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

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

$$T_n = \frac{2}{n} - \frac{2}{n+1}$$

$$T_n = V_n - V_{n+1}$$

$$\begin{aligned} S_n &= V_1 - V_{n+1} \\ &= 2 - \frac{2}{n+1} \end{aligned}$$

$$S_n = \frac{2n}{n+1}$$



The value of $\lim_{n \rightarrow \infty} \left[\frac{3}{1^2} + \frac{5}{1^2 + 2^2} + \frac{7}{1^2 + 2^2 + 3^2} + \frac{9}{1^2 + 2^2 + 3^2 + 4^2} + \dots \text{to } n \text{ terms} \right]$ is

✓ **A.** 6

B. 7

C. 8

D. 9

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

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

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

$$S_n = \frac{6n}{n+1}$$

$$S_n = \frac{6n+6}{n+1} - \frac{6}{n+1}$$

$$S_n = 6 - \frac{6}{n+1}$$

$$n \rightarrow \infty \cdot S_n = 6$$



Variations of Type-1 and Type-2

If the terms are not as per type-1 or type-2 then we first break our T_n into multiple parts where each part follows the conditions of Type-1 or Type-2



Sum the following series to n terms $\frac{4}{1 \cdot 2 \cdot 3} + \frac{5}{2 \cdot 3 \cdot 4} + \frac{6}{3 \cdot 4 \cdot 5} + \dots$

$$T_n = \frac{(n+3)}{n(n+1)(n+2)}$$

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

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

$$T_n = \underbrace{(T_n)_1}_{\downarrow} + \underbrace{(T_n)_2}_{\downarrow}$$

$$S_n = (S_n)_1 + (S_n)_2$$



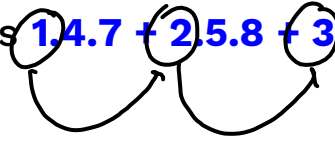
Sum the following series to n terms $\frac{1}{1 \cdot 2 \cdot 3} + \frac{3}{2 \cdot 3 \cdot 4} + \frac{5}{3 \cdot 4 \cdot 5} + \frac{7}{4 \cdot 5 \cdot 6} + \dots$

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

$$= \frac{\cancel{2} \cancel{(2n+4)}}{\cancel{n(n+1)(n+2)}} + \frac{-5}{n(n+1)(n+2)}$$
$$= \frac{2}{n(n+1)} - 5 \left(\frac{1}{n(n+1)(n+2)} \right)$$



Sum the following series to n terms $1.4.7 + 2.5.8 + 3.6.9 + \dots$



M-1

$$T_n = n(n+3)(n+6)$$

$$T_n = n^3 + 9n^2 + 18n$$

$$S_n = \sum (n^3 + 9n^2 + 18n)$$

M-2

$$T_n = n(n+3)(n+6)$$

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

$$= n(n+1)(n+6) + 2n(n+6)$$

$$= n(n+1)(\overline{n+2} + 4) + 2n(\overline{n+1} + 5)$$

$$= n(n+1)(n+2) + 4n(n+1) + 2n(n+1) + 10n$$



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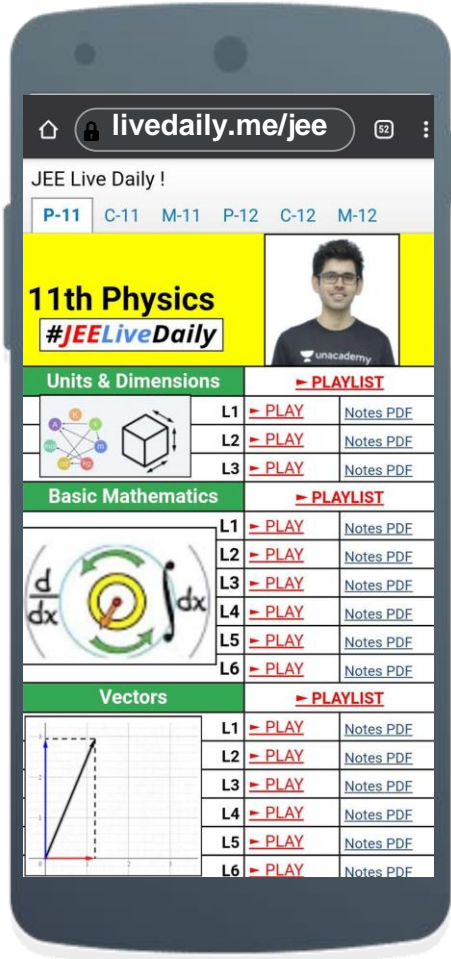
3:00 - 4:30 PM



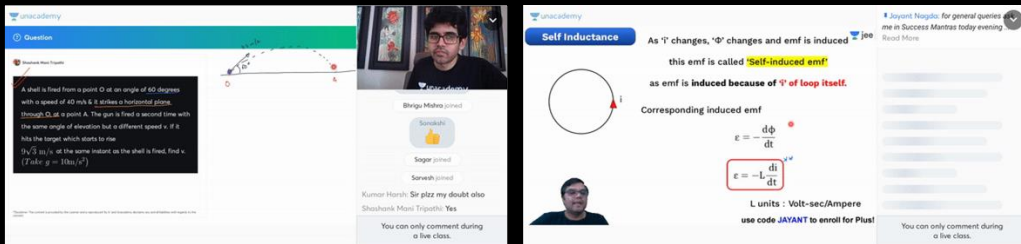
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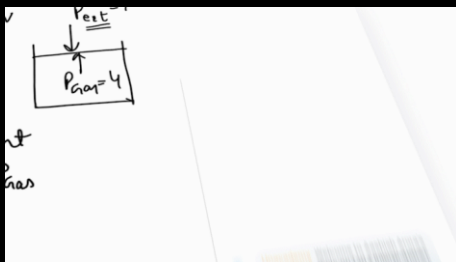
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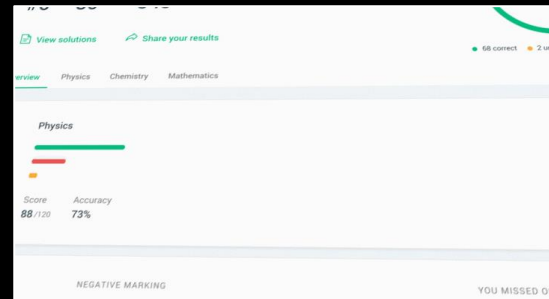
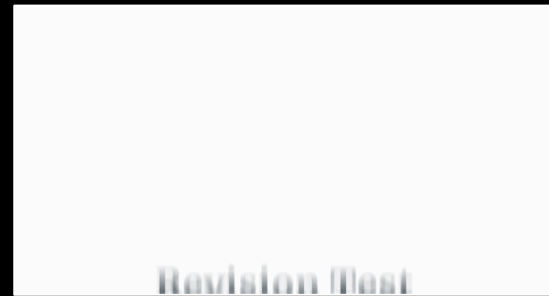


The image shows two screenshots from the Unacademy live class interface. The left screenshot displays a physics problem: "A shell is fired from a point O at an angle of 60 degrees with a speed of 40 m/s & it strikes a horizontal plane through O at a point A. The gun is fired a second time with the same 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 $g = 10 \text{ m/s}^2$)". The right screenshot shows a lecture on "Self Inductance" with the text: "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." It includes the formula for induced emf: $\mathcal{E} = -\frac{d\Phi}{dt}$ and $\mathcal{E} = -L \frac{di}{dt}$, and mentions "L units: Volt-sec/Ampere".



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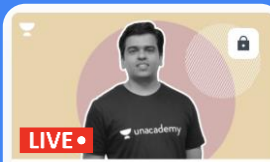


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Anupam Gupta and 2 more



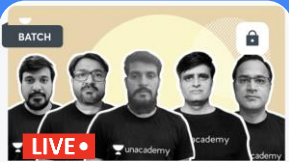
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Mega Batch Course for Class 12th JEE Main and Advanced 2022

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Enthuse: Class 12th for JEE Main and Advanced 2022

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Amarnath Anand and 2 more



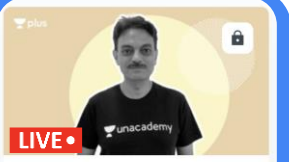
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Final Rapid Revision Batch for JEE Main 2021

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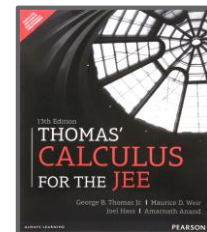
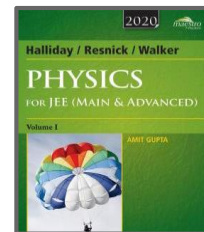
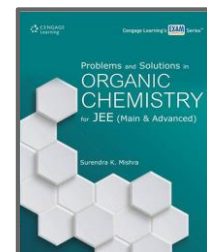
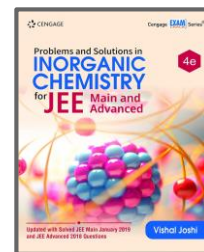
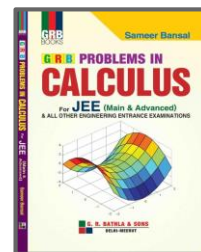
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Course of 12th syllabus Physics for JEE Aspirants 2022: Part - I

Lesson 1 • Apr 2, 2021 12:30 PM

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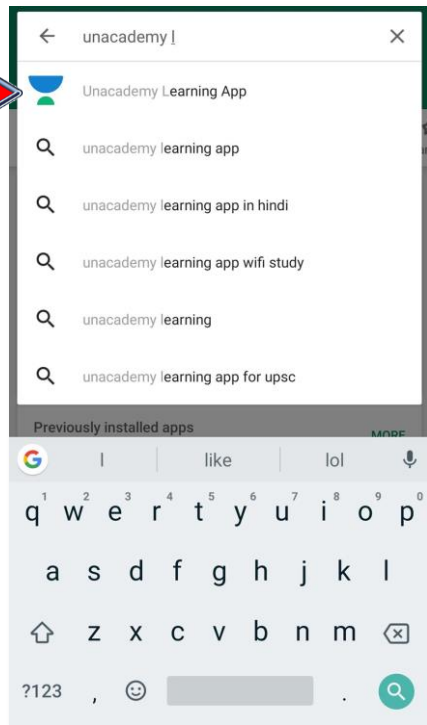


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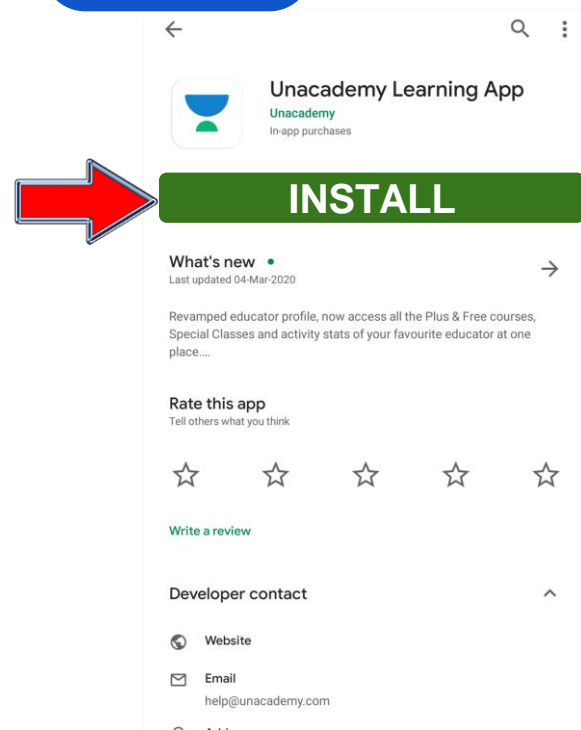


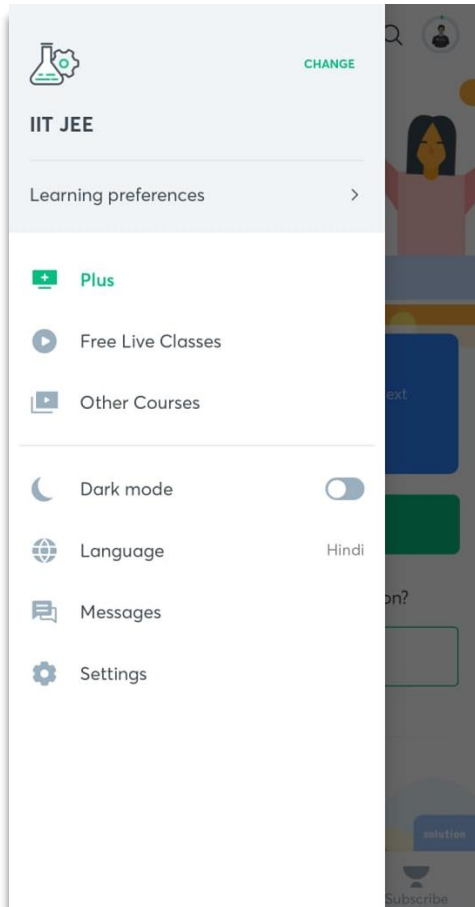
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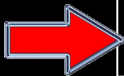
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JEE Main & Advanced 2023
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Upcoming Batches in June



Emerge Batch (Class 11th) : JEE Main & Advanced 2023  **Ongoing**

Evolve 2.0 Batch (Class 12th) : JEE Main & Advanced 2022  **Ongoing**

Early Leader Batch for Droppers : JEE Main & Advanced 2022  **Starts on 23rd June 2021**

Early Excel Batch for Droppers : JEE Main & Advanced 2022  **Starts on 23rd June 2021**

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