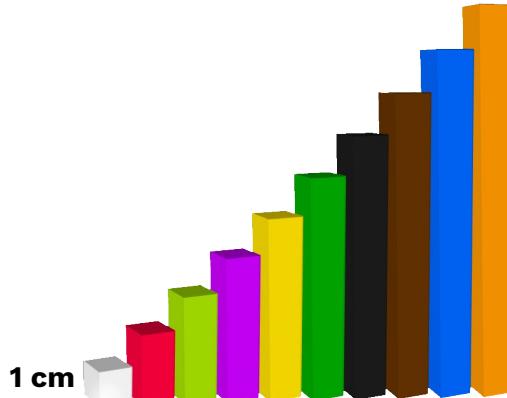


Sequences & Series

JPP

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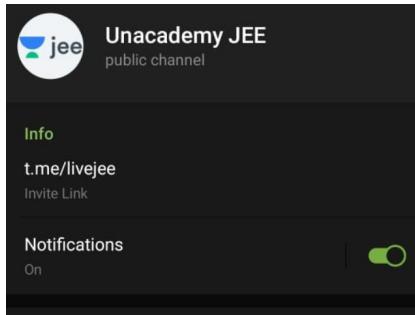
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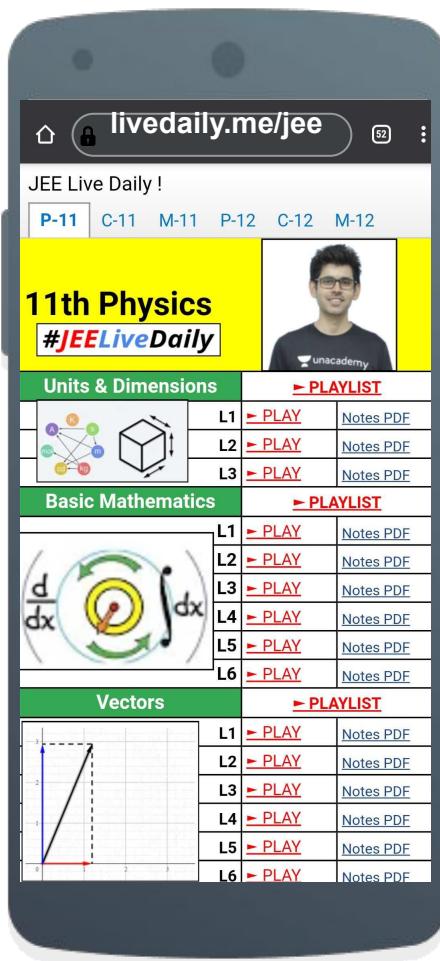
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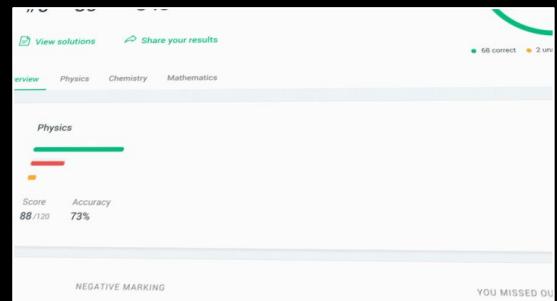
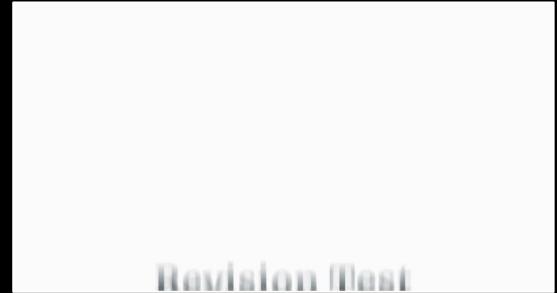
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The collage consists of three panels:

- Top Left:** A screenshot of a physics question about projectile motion. It shows a shell fired from point O at 60 degrees with a speed of 40 m/s, hitting point A. Below is a video feed of a teacher.
- Top Right:** A screenshot of a physics lesson on "Self Inductance". It shows a circular loop with current I flowing clockwise. Text explains that emf is induced because of the change in magnetic flux through the loop. A formula $\epsilon = -L \frac{di}{dt}$ is shown.
- Bottom:** A screenshot of a physics quiz. It shows a diagram of a rectangular loop with vertices labeled P_{ext}, P_{int}, Q_{ext}, and Q_{int}. A handwritten note says "P_{ext} = 4". Below the diagram is a text box: "You can only comment during a live class."

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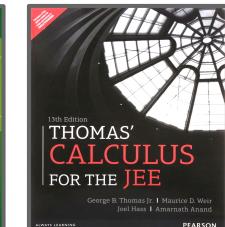
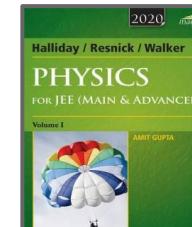
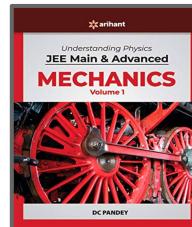
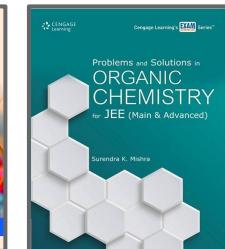
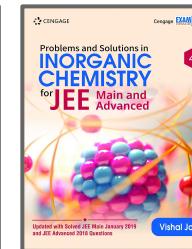
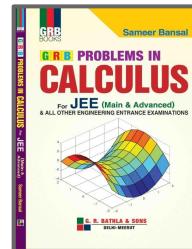
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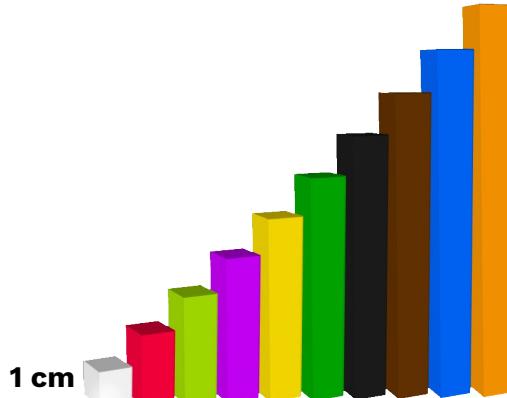
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Sequences & Series

JPP

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Sameer Chincholikar



Let the sum of the first n terms of a non-constant A.P., $a_1, a_2,$

a_3, \dots be $50n + \frac{n(n-7)}{2} A$, where A is a constant.

If d is the common difference of this A.P., then the ordered pair (d, a_{50}) is equal to:

- (a) $(50, 50 + 46A)$
- (b) $(50, 50 + 45A)$
- (c) $(A, 50 + 45A)$
- (d) $(A, 50 + 46A)$



Three circles of radii a , b , c ($a < b < c$) touch each other externally. If they have x-axis as a common tangent, then:

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

JEE M 2019

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

(c) a, b, c are in A.P

(d) $\sqrt{a}, \sqrt{b}, \sqrt{c}$ are in A.P.



Let a_1, a_2, \dots, a_{30} be an A.P., $S = \sum_{i=1}^{30} a_i$ and $T = \sum_{i=1}^{15} a_{(2i-1)}$.

If $a_5 = 27$ and $S - 2T = 75$, then a_{10} is equal to:

JEE M 2019

- (a) 52
(c) 47

- (b) 57
(d) 42



If a , b and c be three distinct real numbers in G.P. and $a + b + c = xb$, then x cannot be:

- (a) -2
(c) 4

- (b) -3
(d) 2



Let A be the sum of the first 20 terms and B be the sum of the first 40 terms of the series

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

JEE M 2018

If $B - 2A = 100\lambda$, then λ is equal to :

- (a) 248
- (b) 464
- (c) 496
- (d) 232



Let $a_1, a_2, a_3, \dots, a_{49}$ be in A.P. such that $\sum_{k=0}^{12} a_{4k+1} = 416$

and $a_9 + a_{43} = 66$. If $a_1^2 + a_2^2 + \dots + a_{17}^2 = 140m$, then m is equal to :

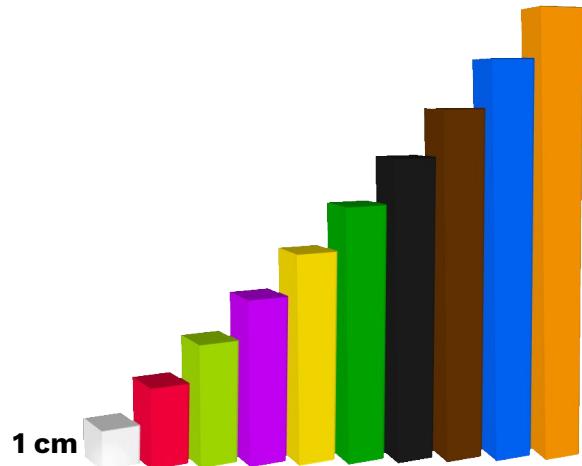
- (a) 68
- (b) 34
- (c) 33
- (d) 66

JEE M 2018

Sequence and Series

DPP

7





For any three positive real numbers a , b and c ,
 $9(25a^2 + b^2) + 25(c^2 - 3ac) = 15b(3a + c)$. Then :

JEE M 2017

- (a) a , b and c are in G.P.
- (b) b , c and a are in G.P.
- (c) b , c and a are in A.P.
- (d) a , b and c are in A.P.



If, for a positive integer n, the quadratic equation,

$x(x+1) + (x+1)(x+2) + \dots + (x+\overline{n-1})(x+n) = 10n$
has two consecutive integral solutions, then n is equal to :

JEE M 2017

- (a) 11
- (b) 12
- (c) 9
- (d) 10



If m is the A.M. of two distinct real numbers l and n ($l, n > 1$) and G_1, G_2 and G_3 are three geometric means between l and n , then $G_1^4 + 2G_2^4 + G_3^4$ equals :

JEE M 2015

- (a) $4lmn^2$
- (b) $4l^2m^2n^2$
- (c) $4l^2mn$
- (d) $4lm^2n$



Statement-1: The sum of the series $1 + (1 + 2 + 4) + (4 + 6 + 9) + (9 + 12 + 16) + \dots + (361 + 380 + 400)$ is 8000.

Statement-2: $\sum_{k=1}^n (k^3 - (k-1)^3) = n^3$, for any natural number n .

JEE M 2012

- (a) Statement-1 is false, Statement-2 is true.
- (b) Statement-1 is true, statement-2 is true; statement-2 is a correct explanation for Statement-1.
- (c) Statement-1 is true, statement-2 is true; statement-2 is not a correct explanation for Statement-1.
- (d) Statement-1 is true, statement-2 is false.



Let a_1, a_2, a_3, \dots be terms on A.P. If

$$\frac{a_1 + a_2 + \dots + a_p}{a_1 + a_2 + \dots + a_q} = \frac{p^2}{q^2}, \quad p \neq q, \text{ then } \frac{a_6}{a_{21}} \text{ equals}$$

JEE M 2006

- (a) $\frac{41}{11}$ (b) $\frac{7}{2}$ (c) $\frac{2}{7}$ (d) $\frac{11}{41}$



#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



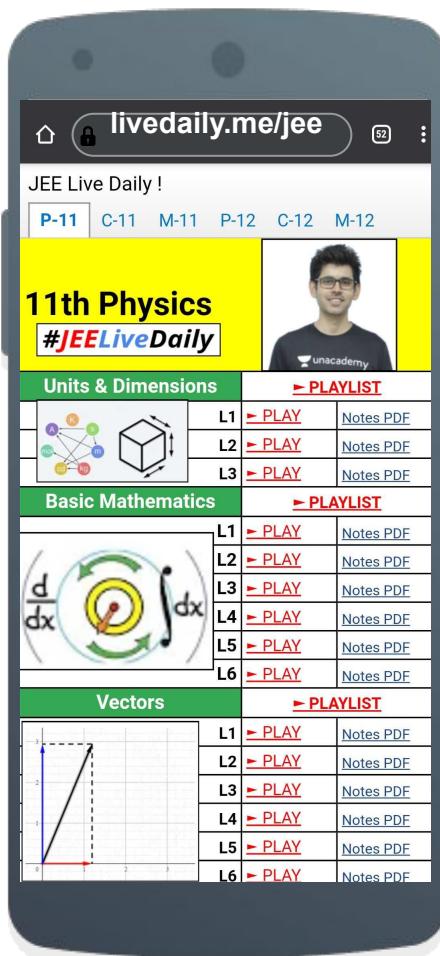
Anupam Sir | Chemistry

3:00 - 4:30 PM



Nishant Sir | Maths

4:30 - 6:00 PM



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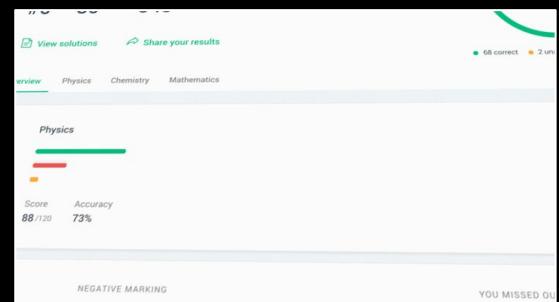
The first screenshot shows a live class interface with a teacher video feed, student names (Brijesh, Sagar, Sonwab), and a question about projectile motion.

The second screenshot shows a physics exercise titled "Self Inductance". It includes a diagram of a circular loop with current I , text explaining self-induced emf, and the formula $e = -L \frac{di}{dt}$.

The third screenshot shows a handwritten note with a diagram of a rectangle and the text $P_{\text{ext}} = 4$.

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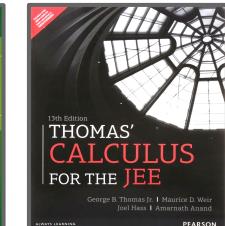
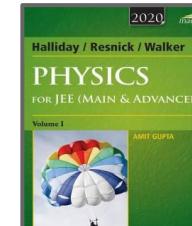
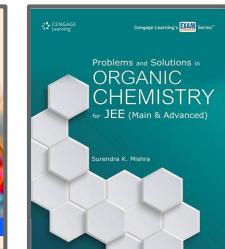
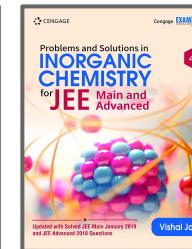
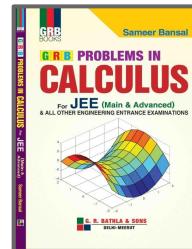
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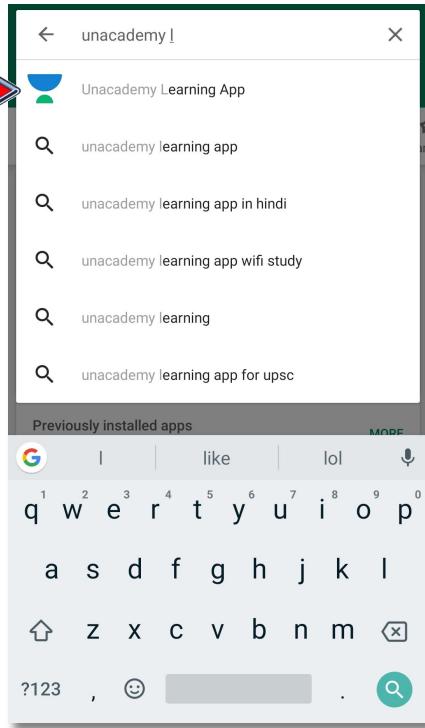


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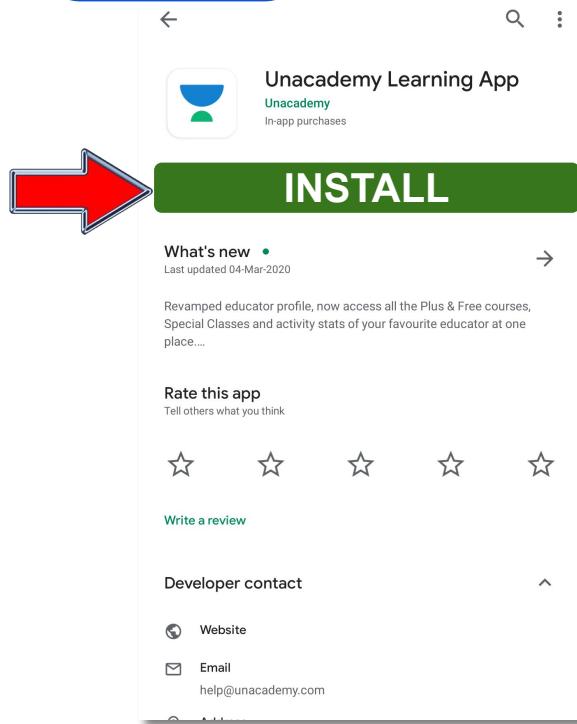


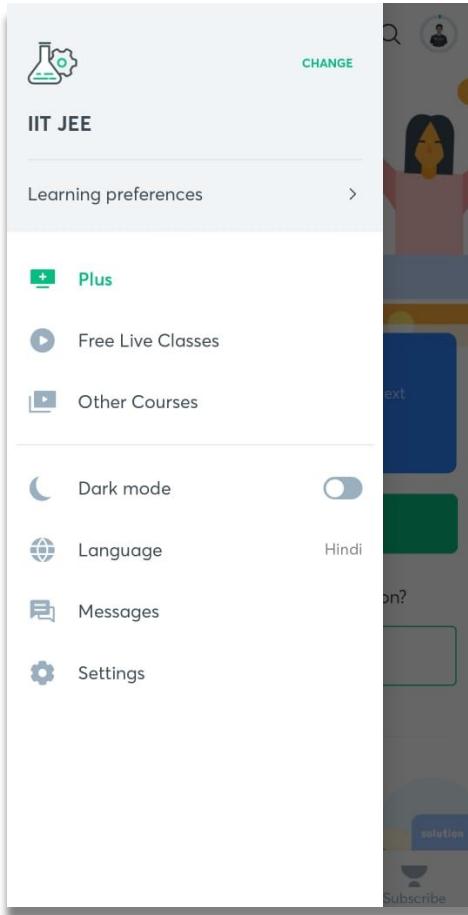
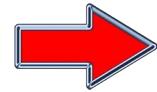
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