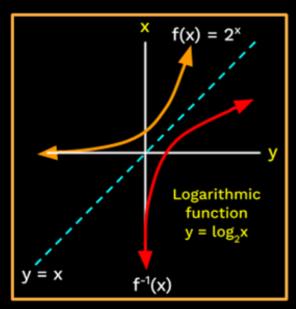


Functions







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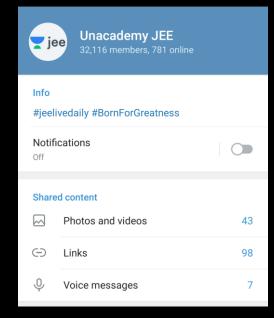
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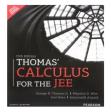


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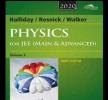
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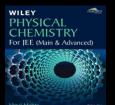
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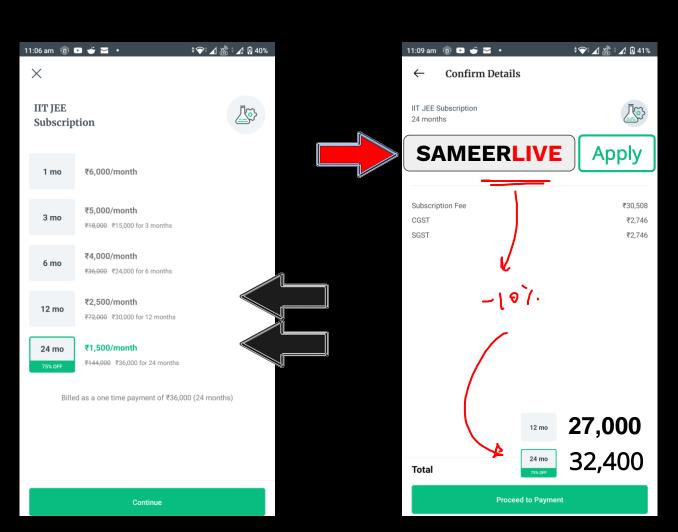












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$$\begin{pmatrix} \frac{1}{5} \end{pmatrix} > 25$$

$$\blacksquare \quad (2, \infty)$$

|x + 2|

$$\Rightarrow (5)^{\frac{1}{|m|-2}} > (5)^{2}$$

C.
$$(-6, -2) \cup (2, 6)$$
 D. $(-6, -2)$

$$\frac{|n+2|}{|n|-2} > 2$$

$$\frac{3}{3} \frac{|n+2|-2|n|+4}{|n|-2} > 5$$

$$\frac{|(n+2)|}{|n|-2} - 2 > 0$$



Solve of
$$2^x + 2^{|x|} \ge 2\sqrt{2}$$

A.
$$\left(-\infty, \log_2\left(\sqrt{2}+1\right)\right)$$
 B. $(0, \infty)$

$$\mathsf{C.} \quad \left(\frac{1}{2}, \log_2(\sqrt{2}-1)\right) \, \mathsf{v}$$

C.
$$\left(\frac{1}{2}, \log_2(\sqrt{2} - 1)\right) \times \left(-\infty, \log_2(\sqrt{2} - 1)\right] \cup \left[\frac{1}{2}, \infty\right)$$

$$\frac{(ase-1: m70)}{2^{n}+2^{n}7252}$$

$$\frac{2^{n}+2^{n}7252}{2^{n}(2^{n})}$$

$$2^{n} + 2^{-n} = 252$$

$$2^{n} + 2^{n} = 252 + \sqrt{8-4}$$

2 t2+1 7 252 t

* Cast-2: [n < 0

Let:
$$2^{n}=t > 0$$

$$\begin{cases}
t = 252t^{2} \\
\frac{1}{2} = (52-1)
\end{cases}$$

$$\frac{1}{t} = 52t^{2} + 1 = (52+1)$$

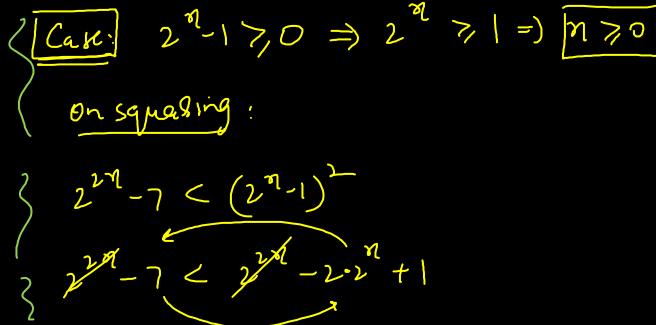


- If $\sqrt{2^{2x}-7} < 2^{x}-1$, then complete set of values of x is
 - $A. (3, \log_2 7]$

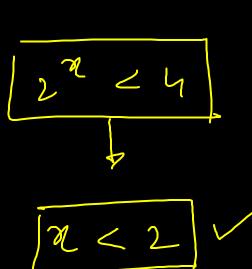
 $\mathbf{B.} \ [\log_4 7, \log_2 7]$

 $e. [log_4 7, 2)$

D. None of these





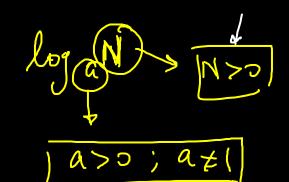




 $f(x) = \log_{\left[x + \frac{1}{2}\right]} \left| x^2 - 5x + 6 \right|$ The domain of the function

$$\begin{bmatrix} \frac{3}{2}, 2 \end{bmatrix} \cup (2, 3) \cup (3, \infty) \qquad \mathbf{B}. \quad \begin{bmatrix} \frac{3}{2}, \infty \end{bmatrix} \times \begin{bmatrix} \cdot \cdot \cdot \cdot \end{bmatrix} = \begin{bmatrix} \cdot \cdot \cdot \cdot \cdot \cdot \end{bmatrix}$$

c.
$$\left[\frac{1}{2}, \infty\right] \times$$



$$|n^2 - 5n+6| > 0$$

$$\pi^{2} - 52 + 6 \neq 0$$
 $\pi \neq 2,3$

$$1 + 2,3$$

$$\begin{array}{c|c}
\hline
 & n+1 \\
\hline$$



If the domain of the given function is (a,b) then find a+b.

$$f(x) = \log_3 \left[-(\log_3 x)^2 + 5 \log_3 x - 6 \right]$$
A. 9 B. 18 C. 27

$$-(\log_3 n)^2 + 5(\log_3 n) - 6 > 0$$

jee

$$t^{2} - 5t + 6 < 0$$
 $(t - 1)(t - 3) < 0$
 $2 < log n < 3$
 $4 + 1 - 7 + 1$
 $2 = 3$
 $2 < log n < 27$
 $4 = 7 + 1$
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 $7 = 7$

2 < t < 3

Range of
$$f(x) = (\ln (3x^2 - 4x + 5))$$
 is

B. $[\ln 10, \infty)$
C. $[\ln \frac{11}{6}, \infty)$
D. $[\ln \frac{11}{12}, \infty)$

$$\frac{3\left(n-\frac{2}{3}\right)^{2}+\left(\frac{11}{3}\right)}{n!n}$$

Domain of $f(x) = \sqrt{2(x)^2 - 3(x) + 1}$ where {.} denotes the fractional part, in [-1,1] is

A.
$$[-1,1] \sim \left(\frac{1}{2},1\right)$$

C.
$$\left[-1,\frac{1}{2}\right]$$

D.
$$\left[-\frac{1}{2},1\right]$$

$$\begin{bmatrix} -1, \frac{1}{2} \end{bmatrix}$$

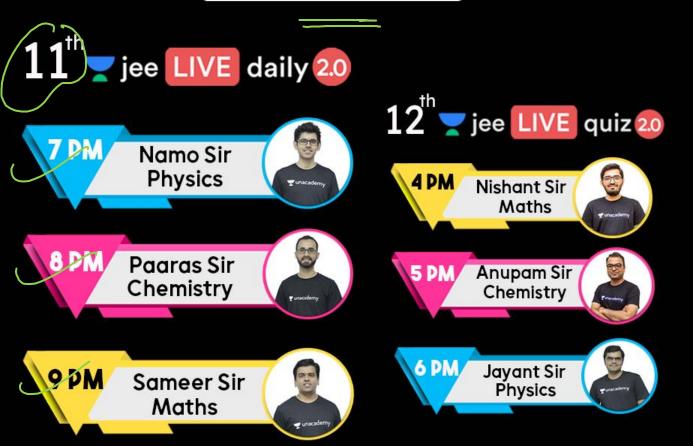






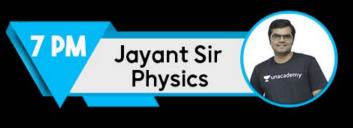
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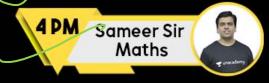


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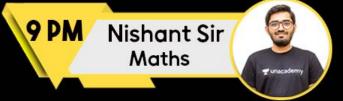








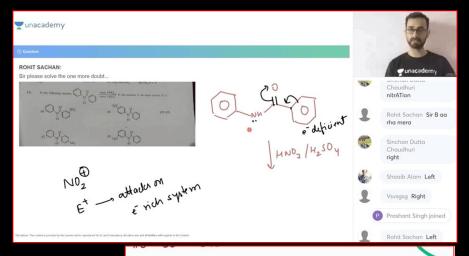






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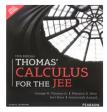


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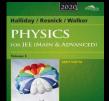
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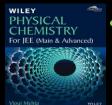
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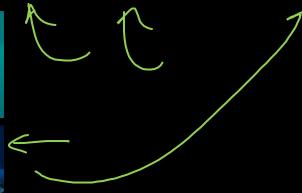
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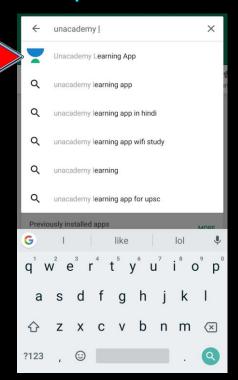




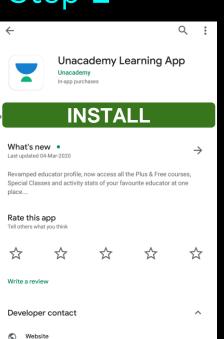




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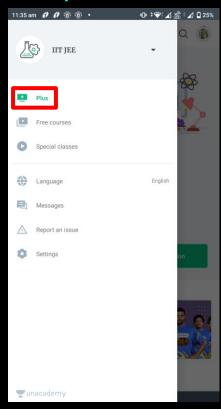


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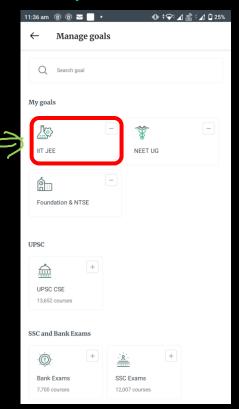




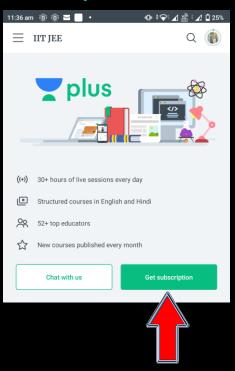
Step 3



Step 4

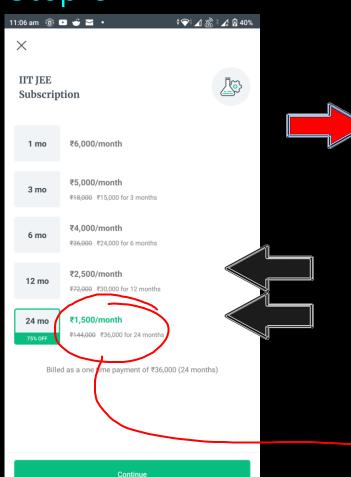


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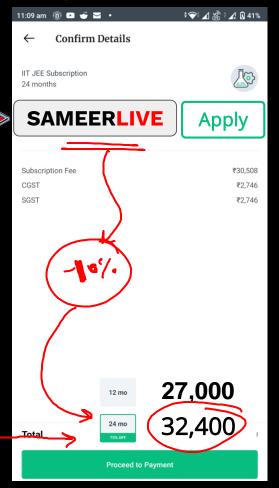




Step 6



Step 7









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