


Ques No.	Question
1 - 10413	<p>CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. CONTINUITY AND DIFFERENTIABILITY</p> <p>Verify Rolle's theorem for the function on $f(x) = x^2 - 5x + 6$ on $[2, 3]$.</p> <p>Click to watch Free Video Solution of this question on Doubtnut</p>
2 - 10416	<p>CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. CONTINUITY AND DIFFERENTIABILITY</p> <p>Find the derivative of $\cos(2x + 1)$ w.r.t. x from first principle.</p> <p>Click to watch Free Video Solution of this question on Doubtnut</p>
3 - 10418	<p>CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. CONTINUITY AND DIFFERENTIABILITY</p> <p>Find the value of k for which the function</p> $f(x) = \begin{cases} kx + 5, & \text{if } x \leq 2 \\ 2x - 1, & \text{if } x > 2 \end{cases}$ <p>is continuous at $x = 2$</p> <p>Click to watch Free Video Solution of this question on Doubtnut</p>
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4 - 10487

Differentiate $\sqrt{\tan x}$ wrt x from first principle.

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. CONTINUITY AND DIFFERENTIABILITY

5 - 10488

Evaluate: $(\lim)_{x \rightarrow \infty} \sqrt{x^2 + x + 1} - x$

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6 - 10504

Differentiate with $(x^2 + 1)$ respect to x from first principle.

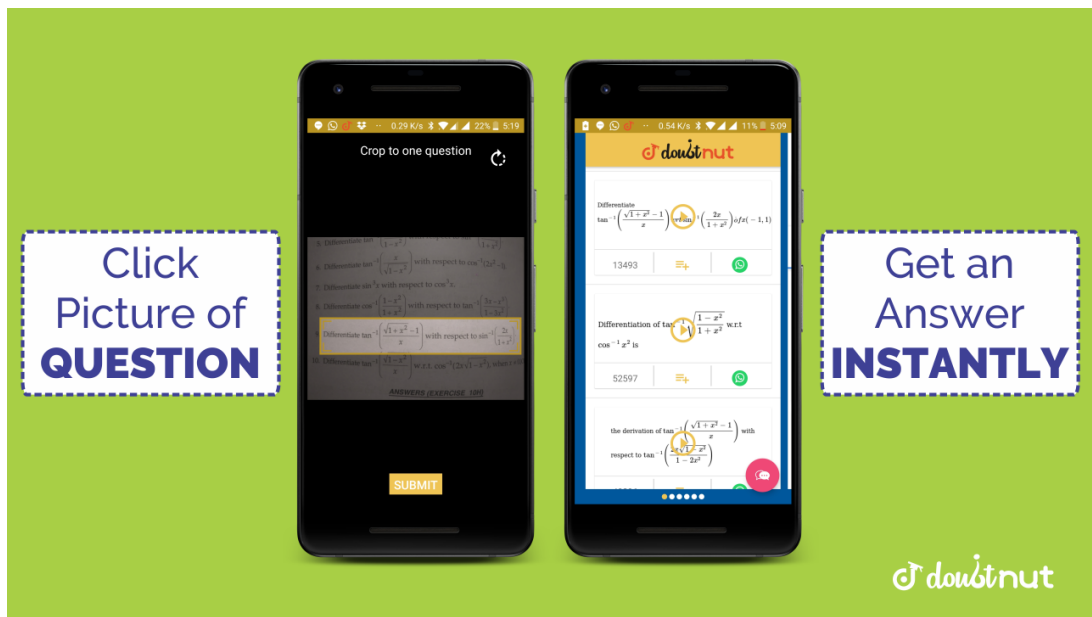
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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. CONTINUITY AND DIFFERENTIABILITY

7 - 10509

Verify Rolle's theorem for the function $f(x) = x^2 - 5x + 4$ on $[1, 4]$.

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. CONTINUITY AND DIFFERENTIABILITY

Verify Lagranges mean value theorem for the following function:

8 - 10533

$$f(x) = x^2 + 2x + 3, \text{ for } [4, 6].$$

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. CONTINUITY AND DIFFERENTIABILITY

Discuss the continuity of the following function at $x = 0$:

9 - 10534

$$f(x) = \left\{ \begin{array}{l} \frac{x^4 + 2x^3 + x^2}{\tan^{-1} x}, x \neq 0 \\ 0, x = 0 \end{array} \right\}$$

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. CONTINUITY AND DIFFERENTIABILITY

Differentiate the following with respect of

10 - 10569

$$x : \tan^{-1} \left(\frac{\sqrt{1+x} - \sqrt{1-x}}{\sqrt{1+x} + \sqrt{1-x}} \right)$$

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11 - 10570

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. CONTINUITY AND DIFFERENTIABILITY

For what value of k is the following function continuous at $x = 2$?

$$f(x) = \{2x + 1; x < 2k; x = 23x - 1; x > 2\}$$

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. CONTINUITY AND DIFFERENTIABILITY

12 - 10631

Show that the function $f(x) = |x - 3|$, $x \in \mathbb{R}$, is continuous but not differentiable at $x = 3$.

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. CONTINUITY AND DIFFERENTIABILITY

13 - 10638

If $x = a \sin t$ and $y = a \left(\cos t + \frac{\log \tan t}{2} \right)$, find $\frac{d^2 y}{dx^2}$

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14 - 10689

Differentiate the following function w.r.t. x : $x^{\sin x} + (\sin x)^{\cos x}$

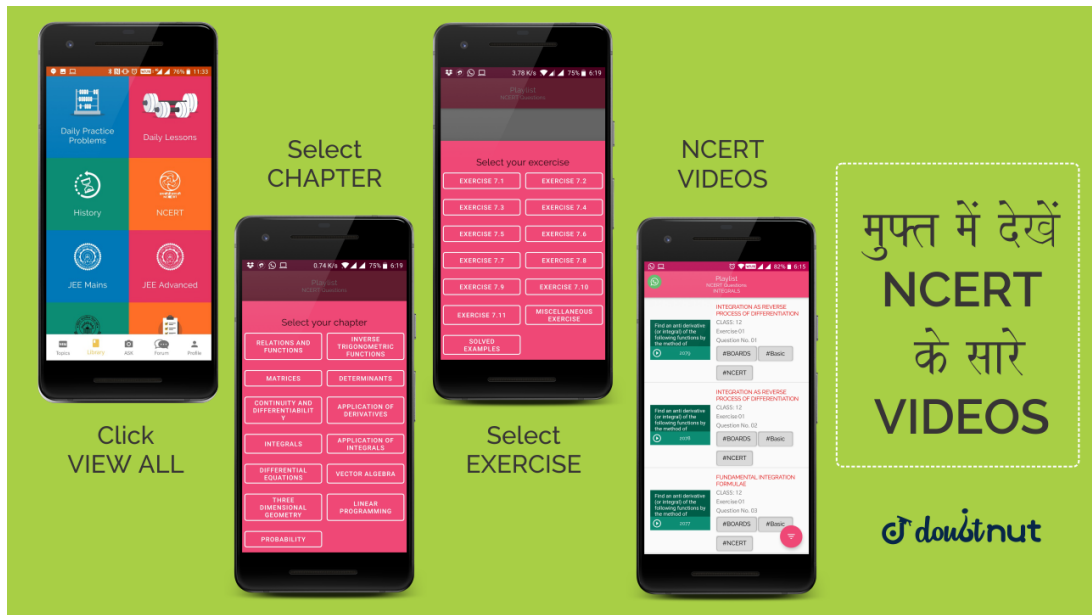
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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. CONTINUITY AND DIFFERENTIABILITY

15 - 10699

If $\sin y = \sin(a + y)$, prove that $\frac{dy}{dx} = \frac{\sin^2(a + y)}{\sin a}$

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. CONTINUITY AND DIFFERENTIABILITY

16 - 10700

If $(\cos x)^y = (\sin y)^x$, find $\frac{dy}{dx}$

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17 - 10724

Find the relationship between a and b so that the function f defined by: $f(x) = \begin{cases} ax + 1 & \text{if } x \leq 3 \\ bx + 3 & \text{if } x > 3 \end{cases}$

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. CONTINUITY AND DIFFERENTIABILITY

18 - 10805

Differentiate the following with respect to x : $\sin^{-1} \left(\frac{2^{x+1} \cdot 3^x}{1 + (36)^x} \right)$

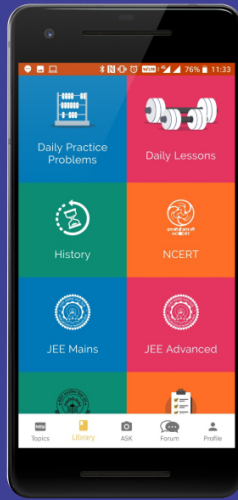
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19 - 10806

If $y^x = e^{y-x}$, prove that $\frac{dy}{dx} = \frac{(1 + \log y)^2}{\log y}$

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20 - 10833

Find $\frac{dy}{dx}$ if $(x^2 + y^2)^2 = xy$

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. CONTINUITY AND DIFFERENTIABILITY

21 - 10835

If $x^m y^n = (x + y)^{m+n}$, prove that $\frac{dy}{dx} = \frac{y}{x}$.

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. CONTINUITY AND DIFFERENTIABILITY

22 - 10848

Find $\frac{dy}{dx}$, if $y = \sin^{-1} \left[x\sqrt{1-x} - \sqrt{x}\sqrt{1-x^2} \right]$

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. CONTINUITY AND DIFFERENTIABILITY

23 - 10849

Show that the function f defined as follows, is continuous at $x = 2$, but not differentiable: $f(x) = \begin{cases} 3x - 22x^2 & x \leq 2 \\ 5x - 102 \end{cases}$

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If $x = \tan\left(\frac{1}{a}\log y\right)$, show that

$$(1 - x^2) \frac{d^2 y}{dx^2} + (2x - a) \frac{dy}{dx} = 0$$

24 - 10883

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If $y = \frac{s \in^{-1} x}{\sqrt{1 - x^2}}$, show that $(1 - x^2)$

$$\frac{d^2 y}{dx^2} - 3x \frac{dy}{dx} - y = 0$$

25 - 10893

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If $y = \cos^{-1}\left(\frac{3x + 4\sqrt{1 - x^2}}{5}\right)$, find $\frac{dy}{dx}$

26 - 10905

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If $y = e^a \sin(-1_x)$, $-1 \leq x \leq 1$, then show that

$$(1 - x^2) \frac{d^2 y}{dx^2} - x \frac{dy}{dx} - a^2 y = 0$$

27 - 10907

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. CONTINUITY AND DIFFERENTIABILITY

28 - 10923

Differentiate $x^{x \cos x} + \frac{x^2 + 1}{x^2 - 1}$ wrt x

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29 - 10924

If $x = a(\theta - \sin \theta)$, $y = a(1 + \cos \theta)$, find $\frac{d^2 y}{dx^2}$

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30 - 10930

If $y = \log \left[x + \sqrt{x^2 + 1} \right]$, prove that

$$(x^2 + 1) \frac{d^2 y}{dx^2} + x \frac{dy}{dx} = 0$$

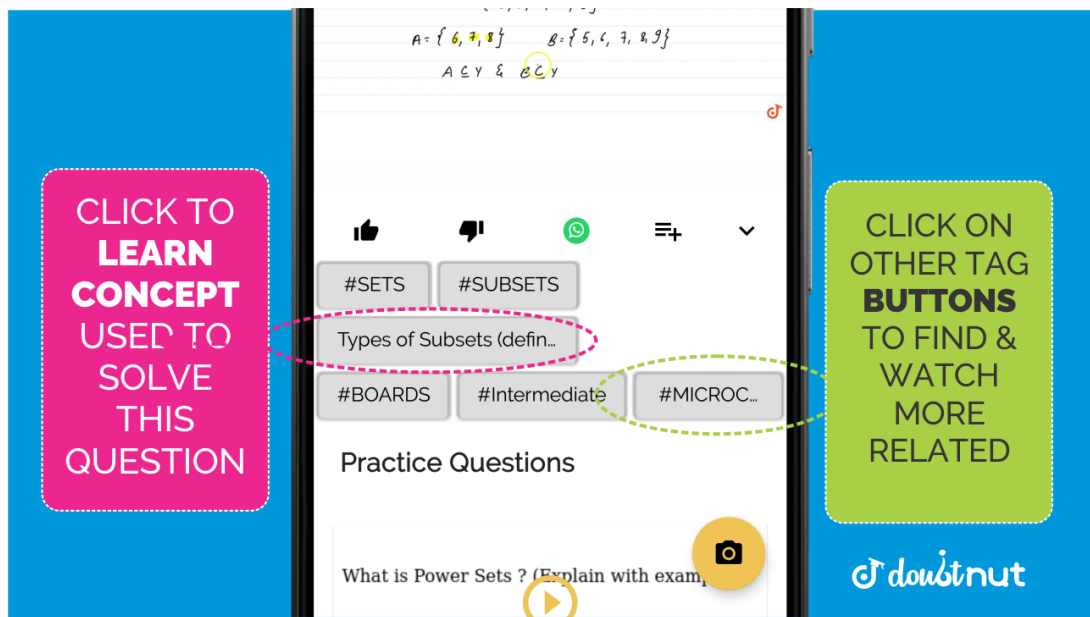
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31 - 10931

Prove that: $\frac{d}{dx} \left[\frac{x}{2} \sqrt{a^2 - x^2} + \frac{a^2}{2} \sin^{-1} \left(\frac{x}{a} \right) \right] = \sqrt{a^2 - x^2}$

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32 - 10934

Show that the function $f(x) = 2x - |x|$ is continuous but not differentiable at $x = 0$

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. CONTINUITY AND DIFFERENTIABILITY

33 - 10935

Differentiate $\tan^{-1} \left(\frac{\sqrt{1+x^2}-1}{x} \right)$ with respect to $\tan^{-1} x$, when $x \neq 0$.

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34 - 10948

Find the value of 'a' for which the function f defined as

$$f(x) = \begin{cases} a \frac{\sin \pi}{2} (x + 1), & x \leq 0 \\ \frac{\tan x - \sin x}{x^3}, & x > 0 \end{cases}$$

continuous at $x = 0$

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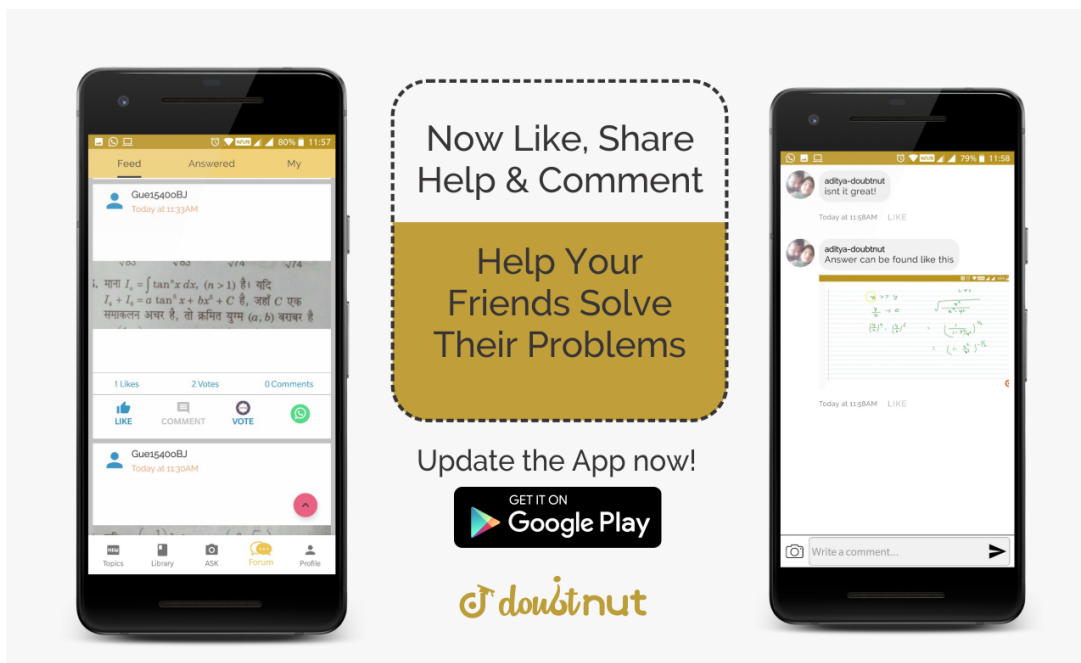
35 - 10973

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. CONTINUITY AND DIFFERENTIABILITY

Differentiate the following with respect to x : $x^{\sin x} + (\sin x)^{\cos x}$

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Find the value of k so that the function f defined by

$$f(x) = \begin{cases} \frac{k \cos x}{\pi - 2x}, & \text{if } x \neq \frac{\pi}{2} \\ 3, & \text{if } x = \frac{\pi}{2} \end{cases} \text{ is}$$

continuous at $x = \frac{\pi}{2}$

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. CONTINUITY AND DIFFERENTIABILITY

Differentiate the following function with respect to x :

$$(\log x)^x + x^{\log x}$$

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. CONTINUITY AND DIFFERENTIABILITY

If $y = \log \left[x + \sqrt{x^2 + a^2} \right]$, show that (

$$(x^2 + a^2) \frac{d^2 y}{dx^2} + x \frac{dy}{dx} = 0$$

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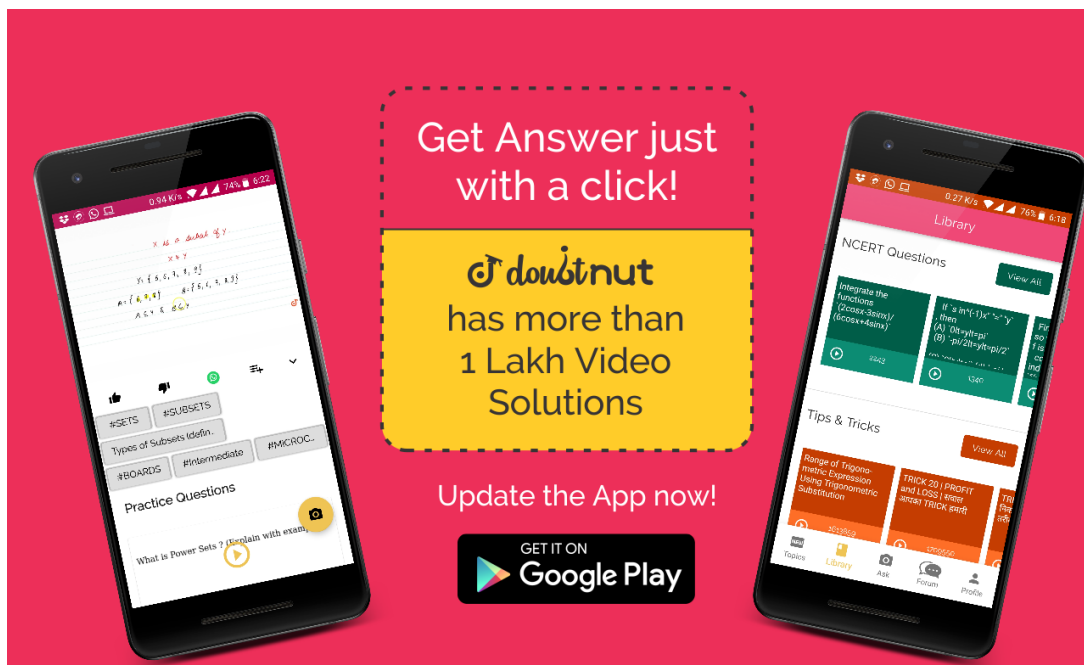
If $x = a^s \in^{(-1)} t$, $y = a^{\cos^{-1}((-1)t)}$, show that

39 - 11031

$$\frac{dy}{dx} = -\frac{y}{x}$$

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If $x = a(\cos t + t \sin t)$ and $y = a(\sin t - t \cos t)$, then find

40 - 11045

$$\frac{d^2 y}{dx^2}$$

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. CONTINUITY AND DIFFERENTIABILITY

If $\log(x^2 + y^2) = \tan^{-1}\left(\frac{y}{x}\right)$, then show that $\frac{dy}{dx} = \frac{x+y}{x-y}$

41 - 11049

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42 - 11063

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. CONTINUITY AND DIFFERENTIABILITY

If $x = a \cos^3 \theta$ and $y = a \sin^3 \theta$, then find the value of $\frac{d^2 y}{dx^2}$ at $\theta = \frac{\pi}{6}$.

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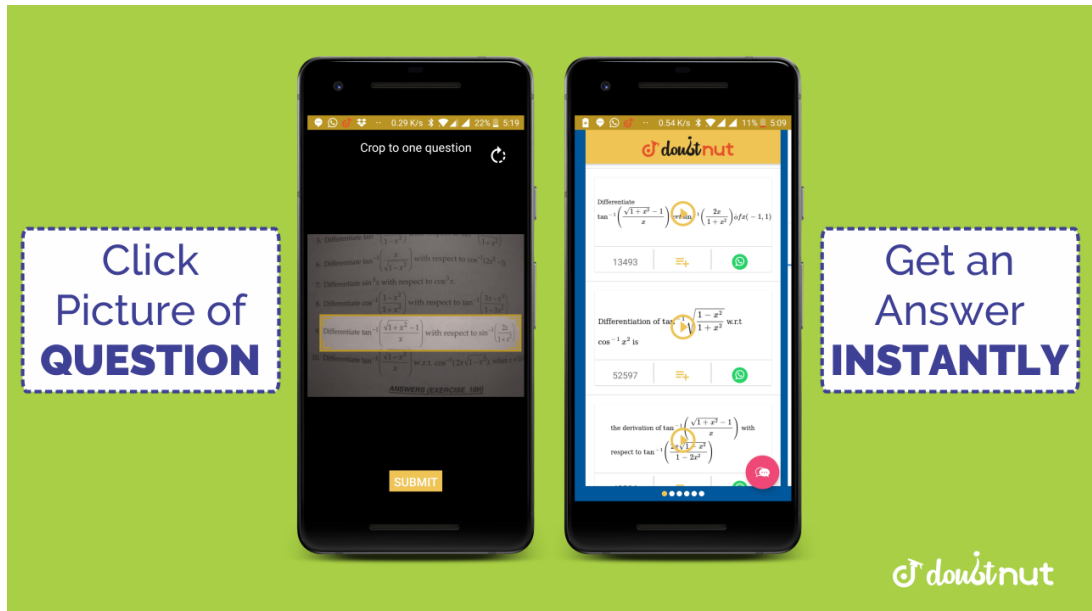
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43 - 11064

If $y = \sin(\log x)$, then prove that $\frac{x^2 d^2 y}{dx^2} + x \frac{dy}{dx} + y = 0$

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. CONTINUITY AND DIFFERENTIABILITY

44 - 11065

Find the value of k , for which

$$f(x) = \begin{cases} \frac{\sqrt{1+kx} - \sqrt{1-kx}}{x \frac{2x+1}{x-1}}, & \text{if } -1 \leq x < 0 \\ \leq x < 1 & \text{if } 0 \end{cases}$$

is continuous at $x = 0$

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45 - 11092

If $(\cos x)^y = (\cos y)^x$, find $\frac{dy}{dx}$

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46 - 11094

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. CONTINUITY AND DIFFERENTIABILITY

Differentiate $\tan^{-1} \left[\frac{\sqrt{1+x^2} - 1}{x} \right]$ with respect to x

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47 - 13243

If $y = \tan^{-1}\left(\frac{a}{x}\right) + \log \sqrt{\frac{x-a}{x+a}}$, Prove that $\frac{dy}{dx} = \frac{2a^3}{x^4 - a^4}$

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48 - 13244

Find the value of the constant k so that the function f , defined below, is continuous at $x = 0$, where

$$f(x) = \begin{cases} \left(\frac{1 - \cos 4x}{8x^2}\right) & \text{if } x \neq 0 \\ k & \text{if } x = 0 \end{cases}$$

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49 - 13249

Differentiate $\tan^{-1}\left(\frac{\sqrt{1-x^2}}{x}\right)$ with respect to $\cos^{-1}\left(2x\sqrt{1-x^2}\right)$, when $x \neq 0$.

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50 - 13284

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Write the derivative of $\sin x$ w.r.t. $\cos x$.

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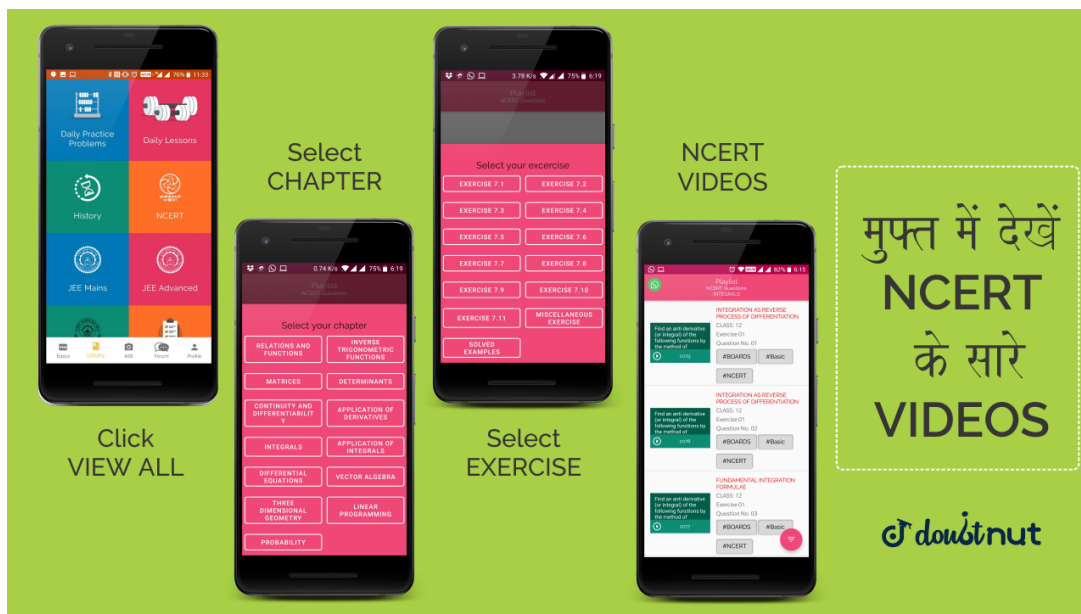
51 - 13298

If $x = a(\cos t + t \sin t)$ and $y = a(\sin t - t \cos t)$, then find the

value of $\frac{d^2y}{dx^2}$ at $t = \frac{\pi}{4}$.

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52 - 13299

If $(x - y)e^{\frac{x}{x-y}} = a$, Prove that $y \frac{dy}{dx} + x = 2y$.

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53 - 13331

$x = a \cos \theta + b \sin \theta$ and $y = a \sin \theta - b \cos \theta$, show that

$$y^2 \frac{d^2y}{dx^2} - x \frac{dy}{dx} + y = 0$$

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54 - 13332

If $x^m y^n = (x + y)^{m+n}$, Prove that $\frac{dy}{dx} = \frac{y}{x}$.

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55 - 13361

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. CONTINUITY AND DIFFERENTIABILITY

If $y = Ae^{mx} + Be^{nx}$, show that

$$\frac{d^2y}{dx^2} - \frac{(m+n)dy}{dx} + mny = 0.$$

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. CONTINUITY AND DIFFERENTIABILITY

For what value of λ the function defined by

$$f(x) = \begin{cases} \lambda(x^2 + 2), & \text{if } x \leq 0 \\ 4x + 6, & \text{if } x > 0 \end{cases}$$

is continuous at $x = 0$? Hence check the differentiability of $f(x)$ at $x = 0$.

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. CONTINUITY AND DIFFERENTIABILITY

If $x = ae^t(\sin t + \cos t)$ and $y = ae^t(\sin t - \cos t)$, prove that

$$\frac{dy}{dx} = \frac{x + y}{x - y}.$$

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. CONTINUITY AND DIFFERENTIABILITY

Find the derivative of $(\sin x)^x + \sin^{-1} \sqrt{x}$ w.r.t. x

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 5. CONTINUITY AND DIFFERENTIABILITY

If $y = \frac{x \cos^{-1} x}{\sqrt{1-x^2}} - \log \sqrt{1-x^2}$, then prove that

59 - 13393

$$\frac{dy}{dx} = \frac{\cos^{-1} x}{(1-x^2)^{\frac{3}{2}}}$$

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If $x = a \sec^3 \theta$, $y = a \tan^3 \theta$, find $\frac{d^2y}{dx^2}$ at $\theta = \frac{\pi}{4}$

60 - 13395

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