

Solve $\tan^{-1}(x + 1) + \tan^{-1}(x - 1) = \tan^{-1}\left(\frac{8}{31}\right)$

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

Prove the following:

5 - 10565

$$\tan^{-1} \frac{1}{3} + \tan^{-1} \frac{1}{5} + \tan^{-1} \frac{1}{7} + \tan^{-1} \frac{1}{8} = \frac{\pi}{4}$$

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

6 - 10584

Evaluate : $\sin \left[\frac{\pi}{3} - \sin^{-1} \left(-\frac{1}{2} \right) \right]$

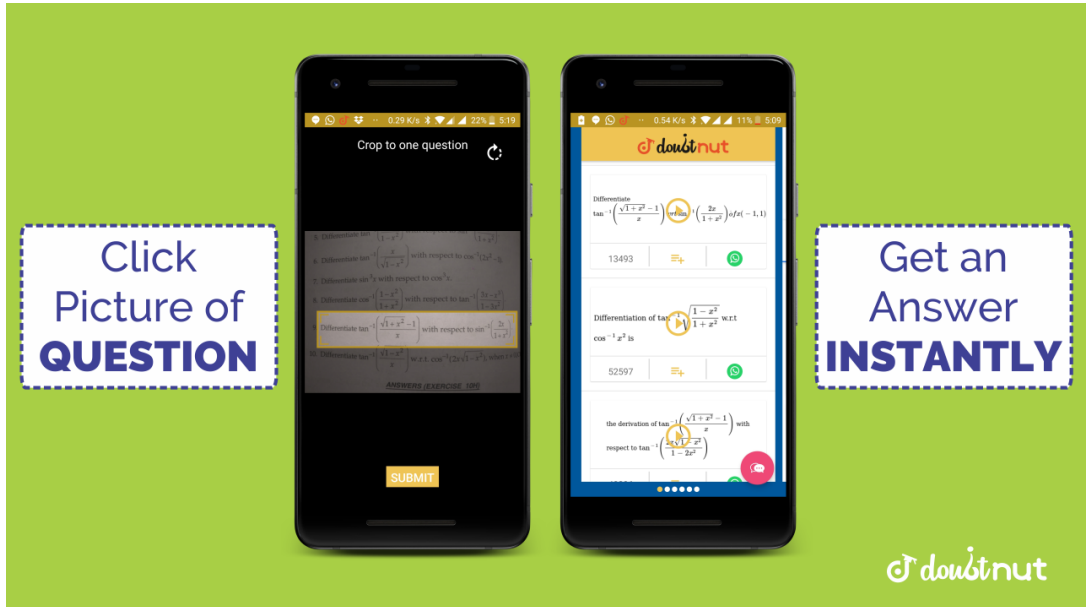
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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

7 - 10602

Write the principal value of $\sec^{-1}(-2)$

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

8 - 10621

Show that: $\tan \left(\frac{1}{2} \sin^{-1} \left(\frac{3}{4} \right) \right) = \frac{4 - \sqrt{7}}{3}$

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9 - 10651

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

Prove the following:

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

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

Prove the following: $\cos \left\{ \tan^{-1} \left\{ \sin \left(\cot^{-1} x \right) \right\} \right\} =$

10 - 10653

$$\sqrt{\frac{1+x^2}{2+x^2}}$$

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

Write the principal value of $\tan^{-1} \sqrt{3} - \cot^{-1} \sqrt{-3}$.

11 - 10659

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

Write the value of $\tan^{-1} \left[2 \sin \left(2 \cos^{-1} \left(\sqrt{\frac{3}{2}} \right) \right) \right]$.

12 - 10660

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13 - 10672

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

Prove the following:

$$\tan^{-1} \sqrt{x} = \frac{1}{2} \cos^{-1} \left(\frac{1-x}{1+x} \right), \quad x \in (0, 1)$$

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

Prove the following:

14 - 10673

$$\cos^{-1} \left(\frac{12}{13} \right) + \sin^{-1} \left(\frac{3}{5} \right) = \sin^{-1} \left(\frac{56}{65} \right)$$

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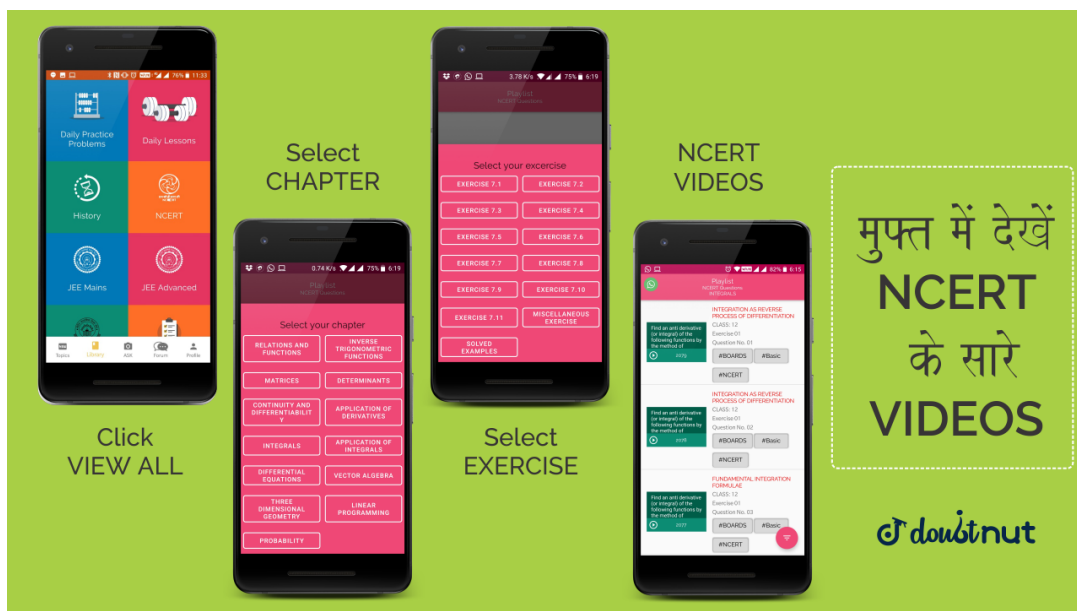
Prove the following:

15 - 10707

$$\tan \left[\frac{\pi}{4} + \frac{1}{2} \cos^{-1} \left(\frac{a}{b} \right) \right] + \tan \left[\frac{\pi}{4} - \frac{1}{2} \cos^{-1} \left(\frac{a}{b} \right) \right] = \frac{2b}{a}$$

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16 - 10735

Write the principal value of, $\cos^{-1} \left(\frac{\cos(7\pi)}{6} \right)$

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17 - 10759

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

Solve for x: $\tan^{-1} 3x + \tan^{-1} 2x = \frac{\pi}{4}$

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

18 - 10760

Prove that: $\sin^{-1}\left(\frac{4}{5}\right) + \sin^{-1}\left(\frac{5}{13}\right) + \sin^{-1}\left(\frac{16}{65}\right) = \frac{\pi}{2}$

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

19 - 10772

What is the principal value of $\sin^{-1}\left(-\frac{\sqrt{3}}{2}\right)$?

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20 - 10779

Prove the following:

$$\tan^{-1}\left(\frac{1}{4}\right) + \tan^{-1}\left(\frac{2}{9}\right) = \frac{1}{2} \cos^{-1}\left(\frac{3}{5}\right)$$

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21 - 10780

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

Solve the following for x :

$$\cos^{-1}\left(\frac{x^2}{x^2}\right) + \tan^{-1}\left(\frac{2x}{x^2-1}\right) = \frac{2\pi}{3}.$$

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

22 - 10797

Prove that: $\sin^{-1}\left(\frac{63}{65}\right) = \sin^{-1}\left(\frac{5}{13}\right) + \cos^{-1}\left(\frac{3}{5}\right)$

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23 - 10799

Solve for x : $2 \tan^{-1}(\sin x) = \tan^{-1}(2 \sec x)$, $x \neq \frac{\pi}{2}$

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24 - 10800

Prove the following:

$$\cot^{-1}\left[\frac{\sqrt{1+\sin x} + \sqrt{1-\sin x}}{\sqrt{1+\sin x} - \sqrt{1-\sin x}}\right] = \frac{x}{2}, \quad x\left(0, \frac{\pi}{4}\right)$$

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25 - 10801

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

Find the value of $\tan^{-1}\left(\frac{x}{y}\right) - \tan^{-1}\left(\frac{x-y}{x+y}\right)$

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

26 - 10810

Write the value of $\sin\left[\frac{\pi}{3} - \sin^{-1}\left(-\frac{1}{2}\right)\right]$

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

27 - 10822

Write the principal value of $\tan^{-1}(1) + \cos^{-1}\left(-\frac{1}{2}\right)$

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28 - 10832

Write the value of $\tan\left(2 \tan^{-1}\left(\frac{1}{5}\right)\right)$.

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29 - 10845

Using principal value, evaluate the following:

$\sin^{-1}\left(\sin\left(\frac{3\pi}{5}\right)\right)$

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30 - 10854

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

Write the principal value of $\tan^{-1}(-1)$

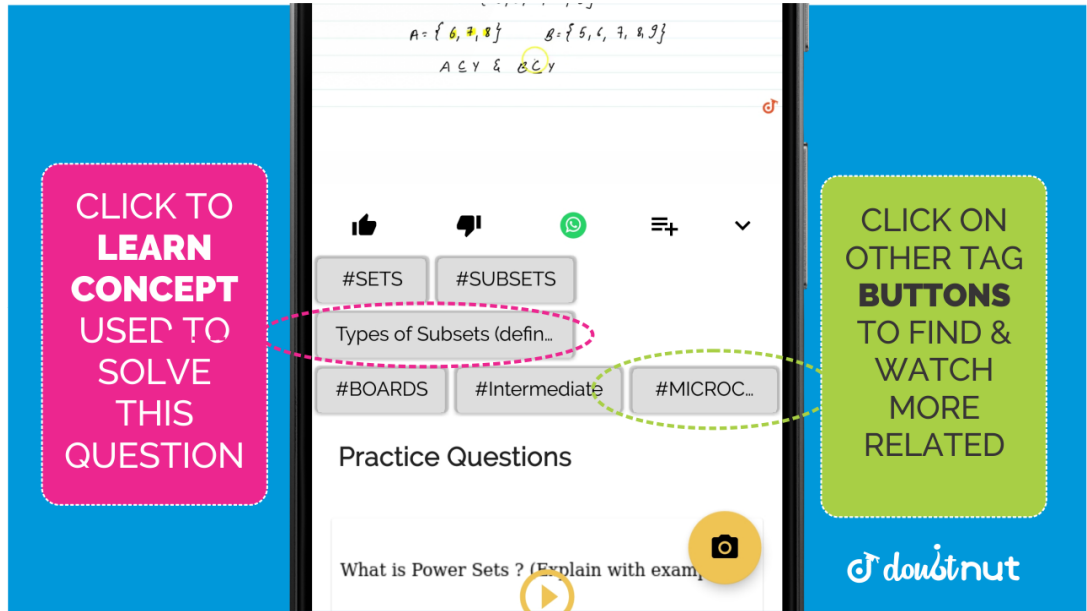
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31 - 10872

Write the principal value of $\cos^{-1}\left(\frac{1}{2}\right) - 2 \sin^{-2}\left(-\frac{1}{2}\right)$

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

Prove that:

32 - 10881

$$\tan^{-1} \left[\frac{\sqrt{1+x} - \sqrt{1-x}}{\sqrt{1+x} + \sqrt{1-x}} \right] = \frac{\pi}{4} - \frac{1}{2} \cos^{-1} x, \quad -\frac{1}{\sqrt{2}} \leq x \leq 1$$

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33 - 10953

Write the principal value of $\tan^{-1}\left[\tan\frac{3\pi}{4}\right]$.

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34 - 10978

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

Write the value of $\sin\left(2 \sin^{-1}\left(\frac{3}{5}\right)\right)$.

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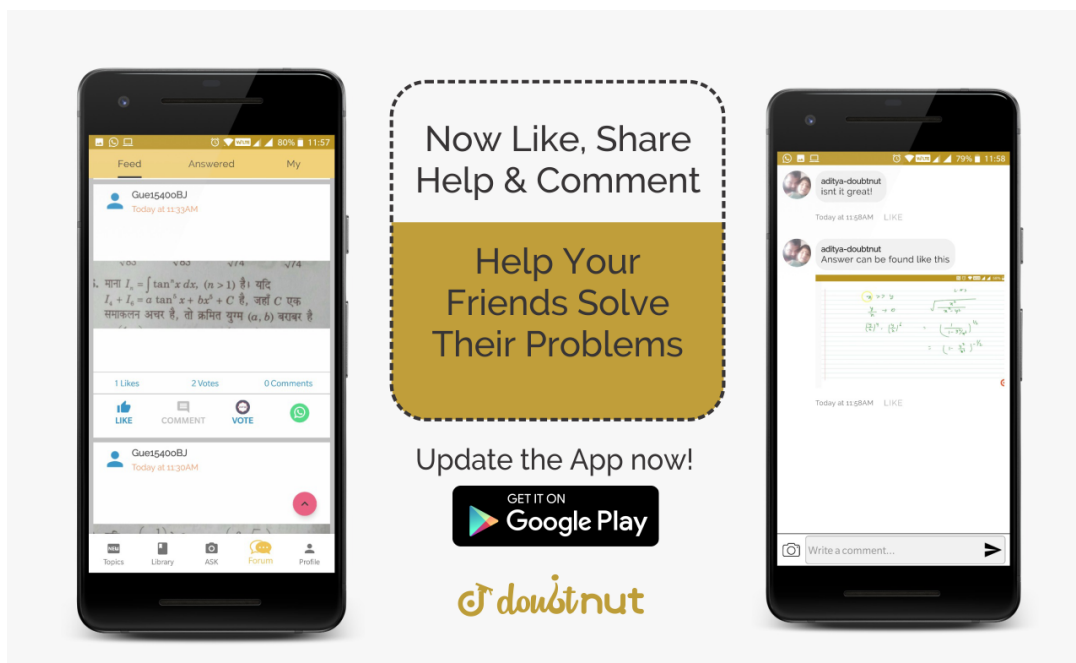
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35 - 10980

Write the principal value of $\tan^{-1}\left(\tan\left(\frac{9\pi}{8}\right)\right)$

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36 - 10986

Solve the following equation for x :

$$\tan^{-1}\left(\frac{1-x}{1+x}\right) = \frac{1}{2}\tan^{-1}(x), \quad x > 0$$

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

37 - 10987

Prove the following: $\frac{9}{8} - \frac{9}{4}\sin^{-1}\left(\frac{1}{3}\right) = \frac{9}{4}\sin^{-1}\left(\frac{2\sqrt{2}}{3}\right)$

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38 - 10989

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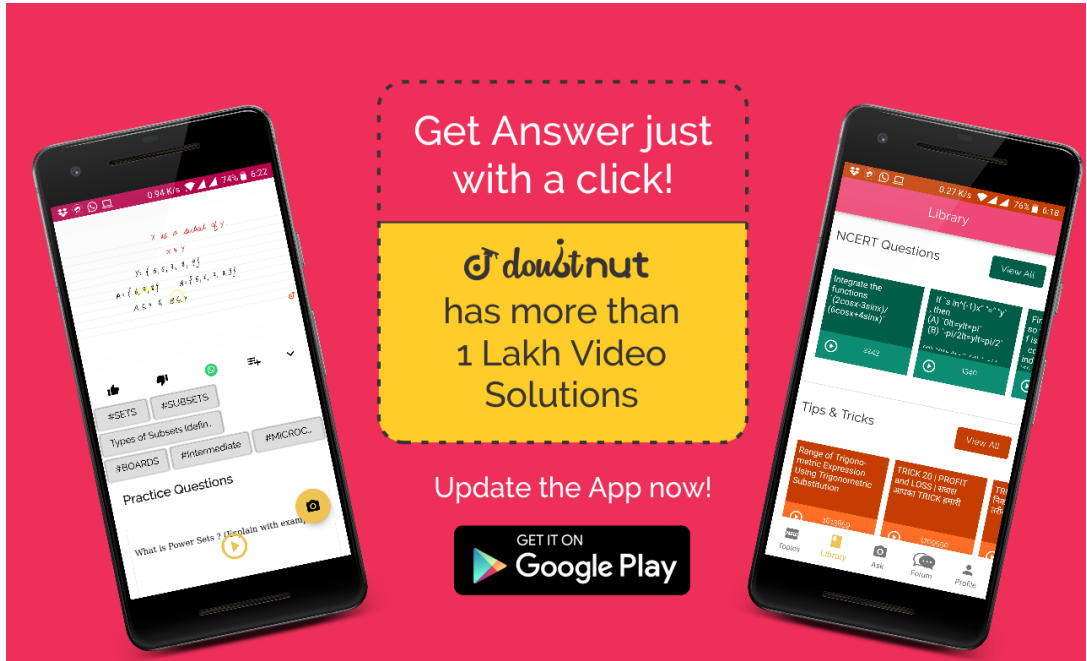
If $\tan^{-1}\left(\frac{x-1}{x-2}\right) + \tan^{-1}\left(\frac{x+1}{x+2}\right) = \frac{\pi}{4}$, then find the value of x .

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39 - 10990

If $y = \cot^{-1}(\sqrt{\cos x}) - \tan^{-1}(\sqrt{\cos x})$, then prove that $\sin y = \tan^2\left(\frac{x}{2}\right)$

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40 - 11007

Prove that : $\tan^{-1}\left(\frac{1}{2}\right) + \tan^{-1}\left(\frac{1}{5}\right) + \tan^{-1}\left(\frac{1}{8}\right) = \frac{\pi}{4}$.

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41 - 11010

What is the principal value of $\cos^{-1} \cos\left(\frac{2\pi}{3}\right) + \sin^{-1} \sin\left(\frac{2\pi}{3}\right)$?

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42 - 11036

Solve for x : $2 \tan^{-1}(\cos x) = \tan^{-1}(2 \operatorname{cosec} x)$

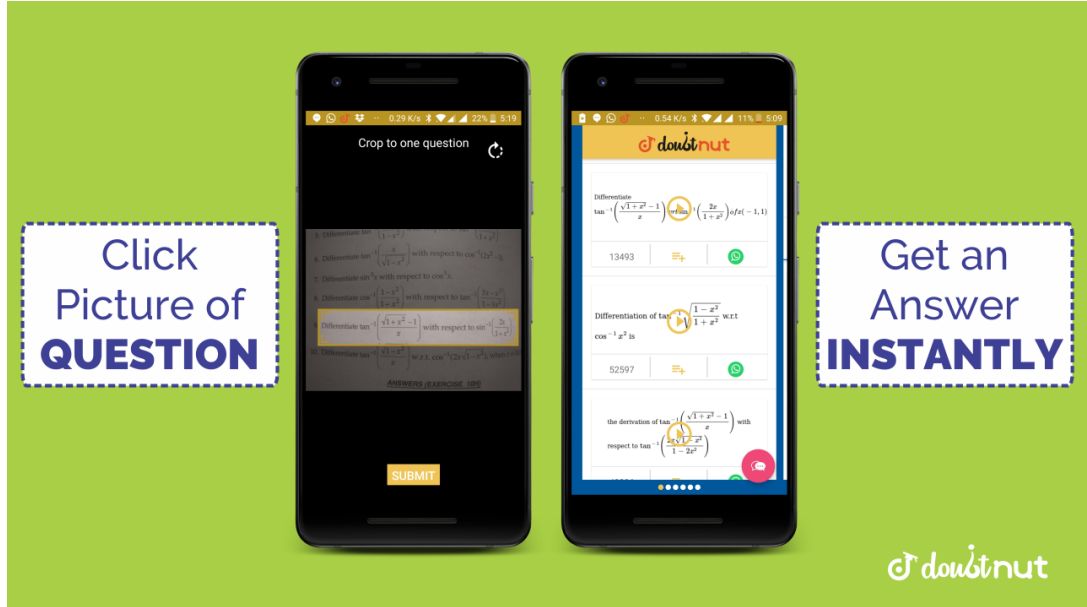
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43 - 11037

Prove the following:

$$\cot^{-1} \left(\frac{\sqrt{1 + \sin x} + \sqrt{1 - \sin x}}{\sqrt{1 + \sin x} - \sqrt{1 - \sin x}} \right) = \frac{x}{2}, \quad x \in \left(0, \frac{\pi}{4} \right)$$

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44 - 11044

Write the value of $\cot(\tan^{-1} a + \cot^{-1} a)$.

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

45 - 11050

Prove that $\tan^{-1} \left(\frac{\cos x}{1 + \sin x} \right) = \frac{\pi}{4} - \frac{x}{2}, \quad x \in \left(-\frac{\pi}{2}, \frac{\pi}{2} \right)$

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

46 - 11054

Prove that $\sin^{-1} \left(\frac{8}{17} \right) + \sin^{-1} \left(\frac{3}{5} \right) = \cos^{-1} \left(\frac{36}{85} \right)$

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47 - 11079

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

Find the value of the following:

$$\tan\left(\frac{1}{2}\right) \left[\sin^{-1}\left(\frac{2x}{1+x^2}\right) + \cos^{-1}\left(\frac{1-y^2}{1+y^2}\right) \right], |x| < 1, y > 0$$

and $xy < 1$.

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48 - 11101

Find the principal value of $\tan^{-1} \sqrt{3} - \sec^{-1}(-2)$

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

49 - 11103

Prove The following: $\cos\left(\sin^{-1} \frac{3}{5} + \cot^{-1} \frac{3}{2}\right) = \frac{6}{5\sqrt{13}}$

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

50 - 13220

Solve for x : $\tan^{-1} x + 2 \cot^{-1} x = \frac{2\pi}{3}$

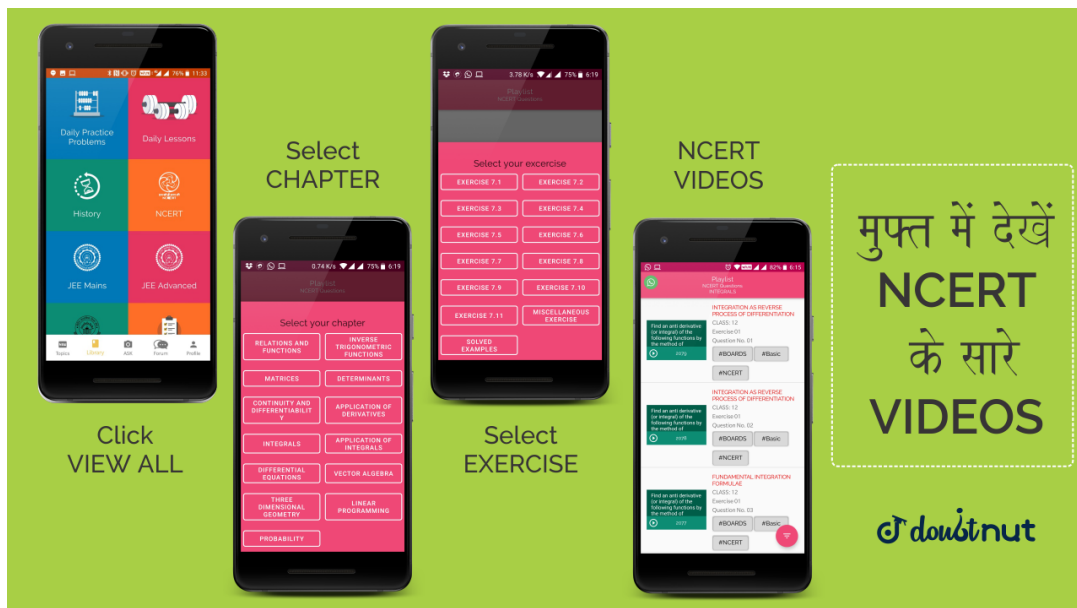
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51 - 13221

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

Prove that: $\cos^{-1}(x) + \cos^{-1}\left\{\frac{x}{2} + \frac{\sqrt{3-3x^2}}{2}\right\} = \frac{\pi}{3}$

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52 - 13229

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

Write the principal value of $\tan^{-1} \left[\sin \left(-\frac{\pi}{2} \right) \right]$

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53 - 13265

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

If $\sin \left(\sin^{-1} \frac{1}{5} + \cos^{-1} x \right) = 1$, then find the value of x .

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54 - 13276

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

Prove that

$$\cot^{-1} \left(\frac{\sqrt{1 + \sin x} + \sqrt{1 - \sin x}}{1\sqrt{1 + \sin x} - \sqrt{1 - \sin x}} \right) = \frac{x}{2}; x \in \left(0, \frac{\pi}{4} \right).$$

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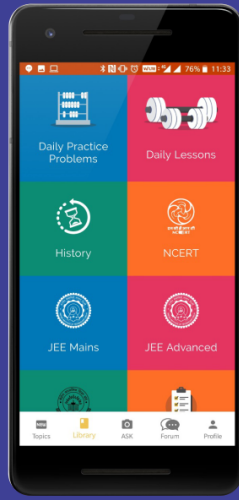
55 - 13277

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

Prove that

$$2 \tan^{-1} \left(\frac{1}{5} \right) + \sec^{-1} \left(\frac{5\sqrt{2}}{7} \right) + 2 \tan^{-1} \left(\frac{1}{8} \right) = \frac{\pi}{4}.$$

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Find the direction cosines of the line

$$\frac{x + 2}{2} = \frac{2y - 7}{6} = \frac{5 - z}{6}. \text{ Also, find the vector equation of}$$

56 - 13281

the line through the point $A(-1, 2, 3)$ and parallel to the given line.

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

Write the principal value of $\cos^{-1}[\cos(680^\circ)]$

57 - 13289

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

Write the value of $\cos^{-1}\left(-\frac{1}{2}\right) + 2 \sin^{-1}\left(\frac{1}{2}\right)$

58 - 13314

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CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

Prove that : $\cot^{-1} 7 + \cot^{-1} 8 + \cot^{-1} 18 = \cot^{-1} 3$

59 - 13324

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60 - 13325

CLASS 12 BOARDS: MOST IMPORTANT QUESTIONS - Chapter 2. INVERSE TRIGONOMETRIC FUNCTIONS

Solve for x : $\cos(\tan^{-1} x) = \sin(\cot^{-1} \frac{3}{4})$

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($\cos^{-1} \sin x$) / ($\cos^{-1} \sin x$)

Let $y = \sin^{-1}(x)$ then
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(B) $\cos y = \sqrt{1-x^2}$

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