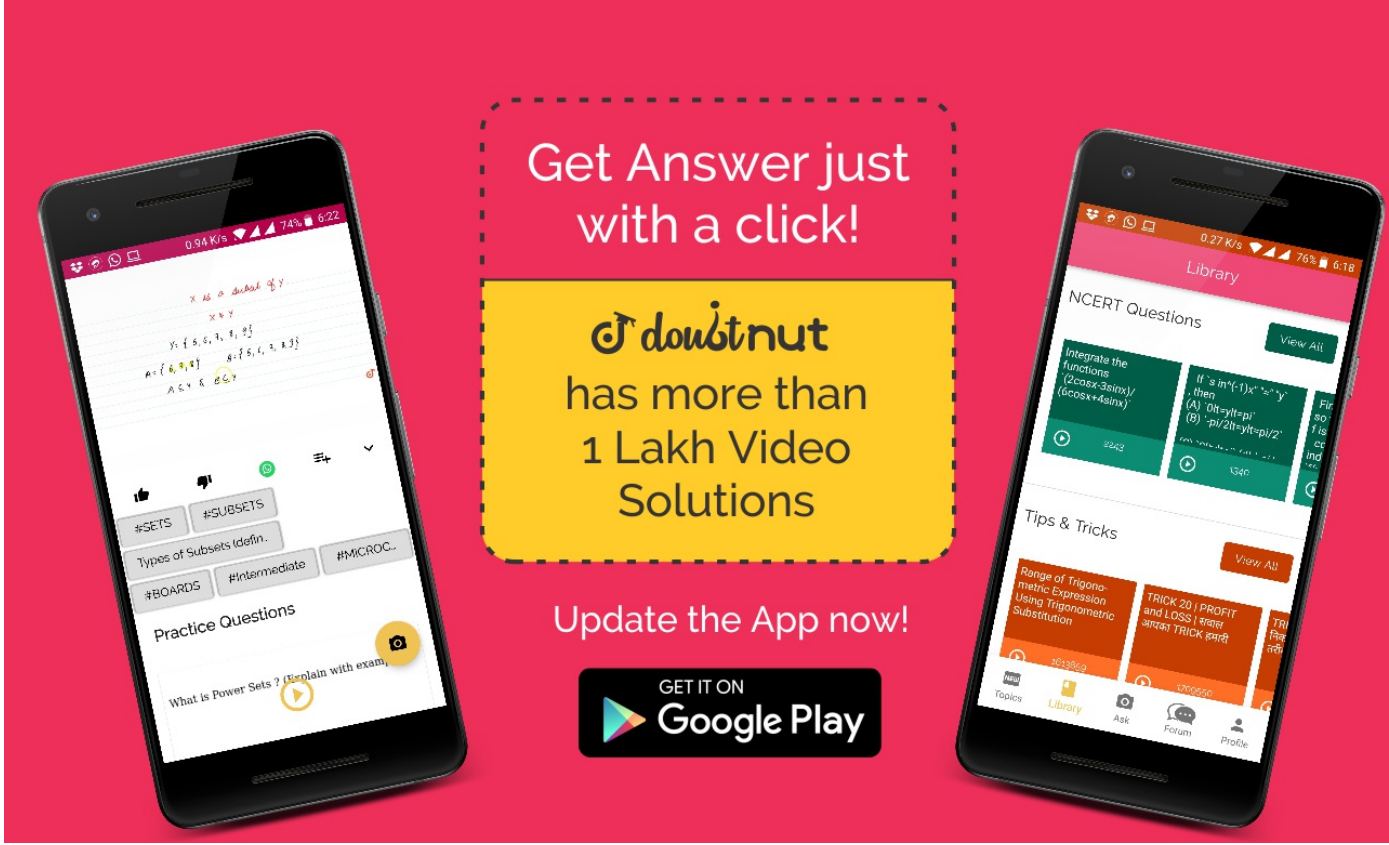


Ques No.	Question
1	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.1 - Q 1 Find the principal value of: $\sin^{-1}\left(-\frac{1}{2}\right)$ ▶ Watch Free Video Solution on Doubtnut
2	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.1 - Q 2 Find the principal value of: $\cos^{-1}\left(\frac{\sqrt{3}}{2}\right)$ ▶ Watch Free Video Solution on Doubtnut
3	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.1 - Q 3 Find the principal value of: $\cos^{-1}(2)$ ▶ Watch Free Video Solution on Doubtnut
4	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.1 - Q 4 Find the principal value of: $\tan^{-1}\left(-\sqrt{3}\right)$ ▶ Watch Free Video Solution on Doubtnut
5	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.1 - Q 5 Find the principal value of: $\cos^{-1}\left(-\frac{1}{2}\right)$ ▶ Watch Free Video Solution on Doubtnut



6

NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.1 - Q 6

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

[▶ Watch Free Video Solution on Doubtnut](#)

7

NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.1 - Q 7

Find the principal value of: $\sec^{-1}\left(\frac{2}{\sqrt{3}}\right)$

[▶ Watch Free Video Solution on Doubtnut](#)

8

NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.1 - Q 8

Find the principal value of: $\cot^{-1}(\sqrt{3})$

[▶ Watch Free Video Solution on Doubtnut](#)

9

NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.1 - Q 9

Find the principal value of: $\cos^{-1}\left(-\frac{1}{\sqrt{2}}\right)$

[▶ Watch Free Video Solution on Doubtnut](#)

10

NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.1 - Q 10

Find the principal value of: $\operatorname{cosec}^{-1}(-\sqrt{2})$

[▶ Watch Free Video Solution on Doubtnut](#)

11	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.1 - Q 11 Find the value of: $\tan^{-1}(1)$ $+ \cos^{-1}\left(-\frac{1}{2}\right)$ $+ \sin^{-1}\left(-\frac{1}{2}\right)$ ▶ Watch Free Video Solution on Doubtnut
--	---

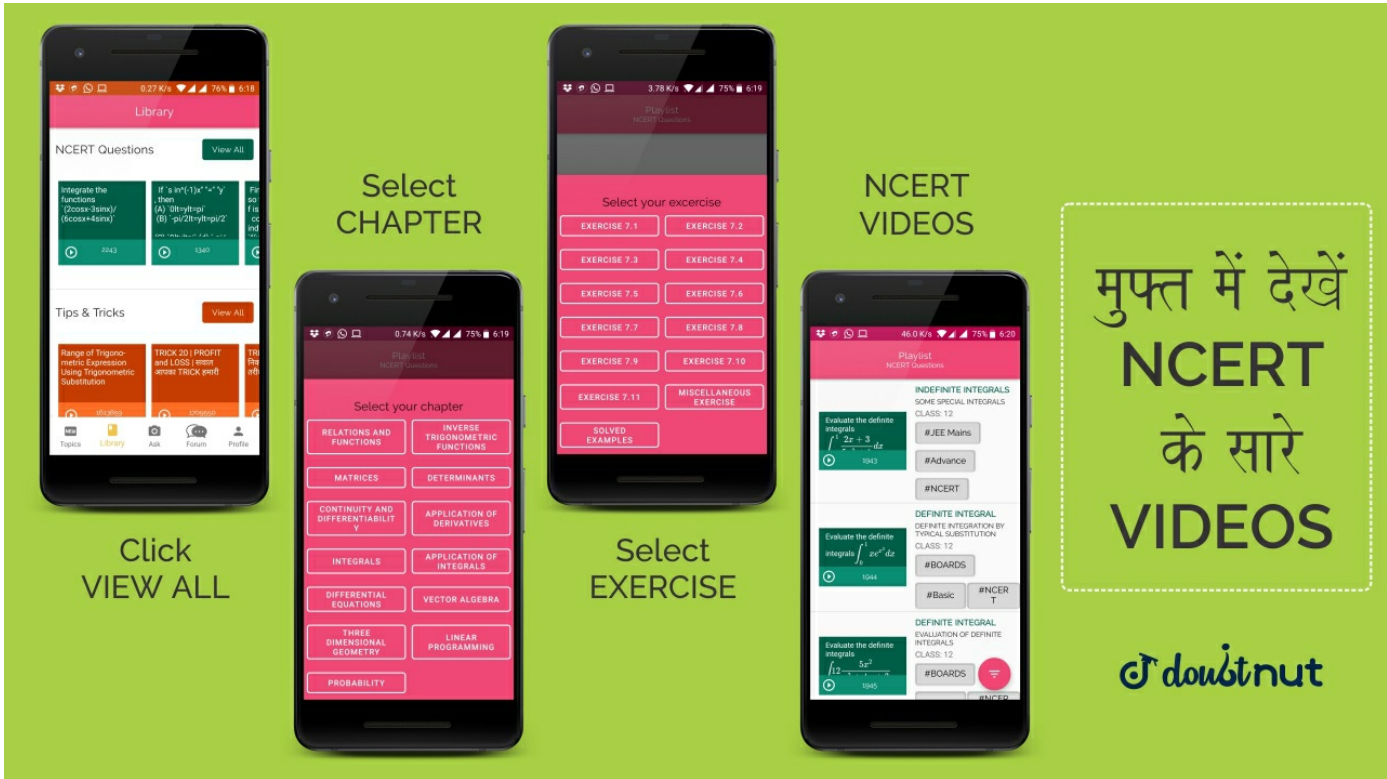
--	---

12	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.1 - Q 12 Find the value of: $\cos^{-1}\left(\frac{1}{2}\right)$ $+ 2 \sin^{-1}\left(\frac{1}{2}\right)$ ▶ Watch Free Video Solution on Doubtnut
--	---

13	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.1 - Q 13 If $s \in^{-1} x = y$, then (A) $0 \leq y \leq \pi$ (B) $-\frac{\pi}{2} \leq y \leq \frac{\pi}{2}$ (C) $0 < y < \pi$ (d) $-\frac{\pi}{2} < y < \frac{\pi}{2}$
--	--

	▶ Watch Free Video Solution on Doubtnut
14	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.1 - Q 14 $\tan^{-1} \sqrt{3}$ $-\sec^{-1}(-2)$ is equal to (a) π (B) $-\frac{\pi}{3}$ (C) $\frac{\pi}{3}$ (D) $\frac{2\pi}{3}$ ▶ Watch Free Video Solution on Doubtnut
15	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.2 - Q 1 Prove that: $3 \sin^{-1} x = \sin^{-1}(3x - 4x^3),$ $x \in \left[-\frac{1}{2}, \frac{1}{2}\right]$ ▶ Watch Free Video Solution on Doubtnut
16	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.2 - Q 2 Prove that: $3 \cos^{-1} x = \cos^{-1}(4x^3 - 3x),$ $x \in \left[\frac{1}{2}, 1\right]$ ▶ Watch Free Video Solution on Doubtnut
17	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.2 - Q 3 Prove that: $\frac{\tan^{-1} 2}{11} + \frac{\tan^{-1} 7}{24} = \frac{\tan^{-1} 1}{2}$ ▶ Watch Free Video Solution on Doubtnut

18	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.2 - Q 4 Prove that: $2 \frac{\tan^{-1} 1}{2} + \frac{\tan^{-1} 1}{7} = \frac{\tan^{-1}(31)}{17}$ ▶ Watch Free Video Solution on Doubtnut
19	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.2 - Q 5 Write the following function in the simplest form: $\tan^{-1} \left(\frac{\sqrt{1+x^2}-1}{x} \right),$ $x \neq 0$ ▶ Watch Free Video Solution on Doubtnut
	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.2 - Q 6

20	Write the following function in the simplest form: $\tan^{-1}\left(\frac{1}{\sqrt{x^2-1}}\right),$ $ x > 1$ ▶ Watch Free Video Solution on Doubtnut
21	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.2 - Q 7 Write the following function in the simplest form: $\tan^{-1}\sqrt{\frac{1-\cos x}{1+\cos x}}$ ▶ Watch Free Video Solution on Doubtnut
22	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.2 - Q 8 Write the following function in the simplest form: $\tan^{-1}\left(\frac{\cos x - \sin x}{\cos x + \sin x}\right), x$ ▶ Watch Free Video Solution on Doubtnut
23	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.2 - Q 9 Write the following function in the simplest form: $\frac{\tan^{-1} x}{\sqrt{a^2-x^2}}, x < a$ ▶ Watch Free Video Solution on Doubtnut
 पढ़ना हुआ आसान	 मुफ्त में देखें NCERT के सारे VIDEOS ▶ Watch Free Video Solution on Doubtnut
	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.2 - Q 10 Write the following function in the simplest form:

24	$\tan^{-1}\left(\frac{3a^2x - x^3}{a^3 - 3ax^2}\right),$ $a > 0; \frac{-a}{\sqrt{3}} \leq x$ $\leq \frac{a}{\sqrt{3}}$ ▶ Watch Free Video Solution on Doubtnut
25	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.2 - Q 11 Find the value of: $\tan^{-1}\left[2 \cos\left(2 \frac{\sin^{-1} 1}{2}\right)\right]$ ▶ Watch Free Video Solution on Doubtnut
26	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.2 - Q 12 Find the value of: $\cot(\tan^{-1} a + \cot^{-1} a)$ ▶ Watch Free Video Solution on Doubtnut
27	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.2 - Q 13 Find the value of: $\tan\left(\frac{1}{2}\left[\frac{\sin^{-1}(2x)}{1+x^2} + \frac{\cos^{-1}(1-y^2)}{1+y^2}\right]\right),$ $ x < 1, y > 0$ and $xy < 1$ ▶ Watch Free Video Solution on Doubtnut
	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.2 - Q 14 If

28	$\sin\left(\frac{\sin^{-1} 1}{5} + \cos^{-1} x\right) = 1$, then find the value of x. ▶ Watch Free Video Solution on Doubtnut
29	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.2 - Q 15 If $\frac{\tan^{-1}(x - 1)}{x - 2} + \frac{\tan^{-1}(x + 1)}{x + 2} = \frac{\pi}{4}$, then find the value of x. ▶ Watch Free Video Solution on Doubtnut
 पढ़ना हुआ आसान	 FREE VIDEOS OF PREVIOUS YEAR EXAM PAPERS JEE ADVANCED JEE MAINS 12 BOARD 10 BOARDS Made by  doubtnut सिर्फ आपके लिए
30	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.2 - Q 16 Find the value of $\sin^{-1}\left(\frac{\sin(2\pi)}{3}\right)$ ▶ Watch Free Video Solution on Doubtnut
31	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.2 - Q 17 Find the value of $\tan^{-1}\left(\frac{\tan(3\pi)}{4}\right)$

	▶ Watch Free Video Solution on Doubtnut
32	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.2 - Q 18 Find the value of $\tan\left(\sin^{-1}\left(\frac{3}{5}\right) + \cot^{-1}\left(\frac{3}{2}\right)\right)$ ▶ Watch Free Video Solution on Doubtnut
33	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.2 - Q 19 $\cos^{-1}\left(\frac{\cos(7\pi)}{6}\right)$ is equal to (a) $\frac{7\pi}{6}$ (B) $\frac{5\pi}{6}$ (C) $\frac{\pi}{3}$ (D) $\frac{\pi}{6}$ ▶ Watch Free Video Solution on Doubtnut
34	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.2 - Q 20 $\sin\left(\frac{\pi}{3} - \sin^{-1}\left(-\frac{1}{2}\right)\right)$ is equal to (A) $\frac{1}{2}$ (B) $\frac{1}{3}$ (C) $\frac{1}{4}$ (D) 1 ▶ Watch Free Video Solution on Doubtnut
35	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - EXERCISE 2.2 - Q 21 $\tan^{-1}\sqrt{3} - \cot^{-1}(-\sqrt{3})$ is equal to (A) π (B) $-\frac{\pi}{2}$ (C) 0 (D) $2\sqrt{3}$ ▶ Watch Free Video Solution on Doubtnut

 पढ़ना हुआ आसान	
36	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - MISCELLANEOUS EXERCISE - Q 1 Find the value of the following: $\cos^{-1}\left(\frac{\cos(13\pi)}{6}\right)$ ▶ Watch Free Video Solution on Doubtnut
37	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - MISCELLANEOUS EXERCISE - Q 2 Find the value of the following: $\tan^{-1}\left(\frac{\tan(7\pi)}{6}\right)$ ▶ Watch Free Video Solution on Doubtnut
38	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - MISCELLANEOUS EXERCISE - Q 3 Prove that: $2\frac{\sin^{-1} 3}{5} = \frac{\tan^{-1}(24)}{7}$ ▶ Watch Free Video Solution on Doubtnut
39	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - MISCELLANEOUS EXERCISE - Q 4 Prove that: $\frac{\sin^{-1} 8}{17} + \frac{\sin^{-1} 3}{5} = \frac{\tan^{-1}(77)}{36}$

	▶ Watch Free Video Solution on Doubtnut
40	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - MISCELLANEOUS EXERCISE - Q 5 Prove that: $\frac{\cos^{-1} 4}{5} + \frac{\cos^{-1}(12)}{13} = \frac{\cos^{-1}(33)}{65}$ ▶ Watch Free Video Solution on Doubtnut
41	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - MISCELLANEOUS EXERCISE - Q 6 Prove that: $\frac{\cos^{-1}(12)}{13} + \frac{\sin^{-1} 3}{5} = \frac{\sin^{-1}(56)}{65}$ ▶ Watch Free Video Solution on Doubtnut
	
	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - MISCELLANEOUS EXERCISE - Q 7 Prove that:

42	$\frac{\tan^{-1}(63)}{16}$ $= \frac{\sin^{-1} 5}{13}$ $+ \frac{\cos^{-1} 3}{5}$ ▶ Watch Free Video Solution on Doubtnut
43	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - MISCELLANEOUS EXERCISE - Q 8 Prove that: $\tan^{-1}\left(\frac{1}{5}\right)$ $+ \tan^{-1}\left(\frac{1}{7}\right)$ $+ \tan^{-1}\left(\frac{1}{3}\right)$ $+ \tan^{-1}\left(\frac{1}{8}\right) = \frac{\pi}{4}$ ▶ Watch Free Video Solution on Doubtnut
44	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - MISCELLANEOUS EXERCISE - Q 9 Prove that: $\tan^{-1} \sqrt{x}$ $= \frac{1}{2} \cos^{-1} \left(\frac{1-x}{1+x} \right),$ $x \in [0, 1]$ ▶ Watch Free Video Solution on Doubtnut
45	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - MISCELLANEOUS EXERCISE - Q 10 Prove that: $\cot^{-1} \left(\frac{\sqrt{1+\sin x} + \sqrt{1-\sin x}}{\sqrt{1+\sin x} - \sqrt{1-\sin x}} \right)$ $= \frac{x}{2}, x \in \left(0, \frac{\pi}{4}\right)$

46

NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - MISCELLANEOUS EXERCISE - Q 11

Prove that

$$\tan^{-1} \left(\frac{\sqrt{1+x} - \sqrt{1-\sin x}}{\sqrt{1+x} - \sqrt{1-\sin x}} \right)$$
$$= \frac{\pi}{4} - \frac{1}{2} \cos^{-1},$$
$$-\frac{1}{\sqrt{2}} \leq x \leq 1$$

[▶ Watch Free Video Solution on Doubtnut](#)

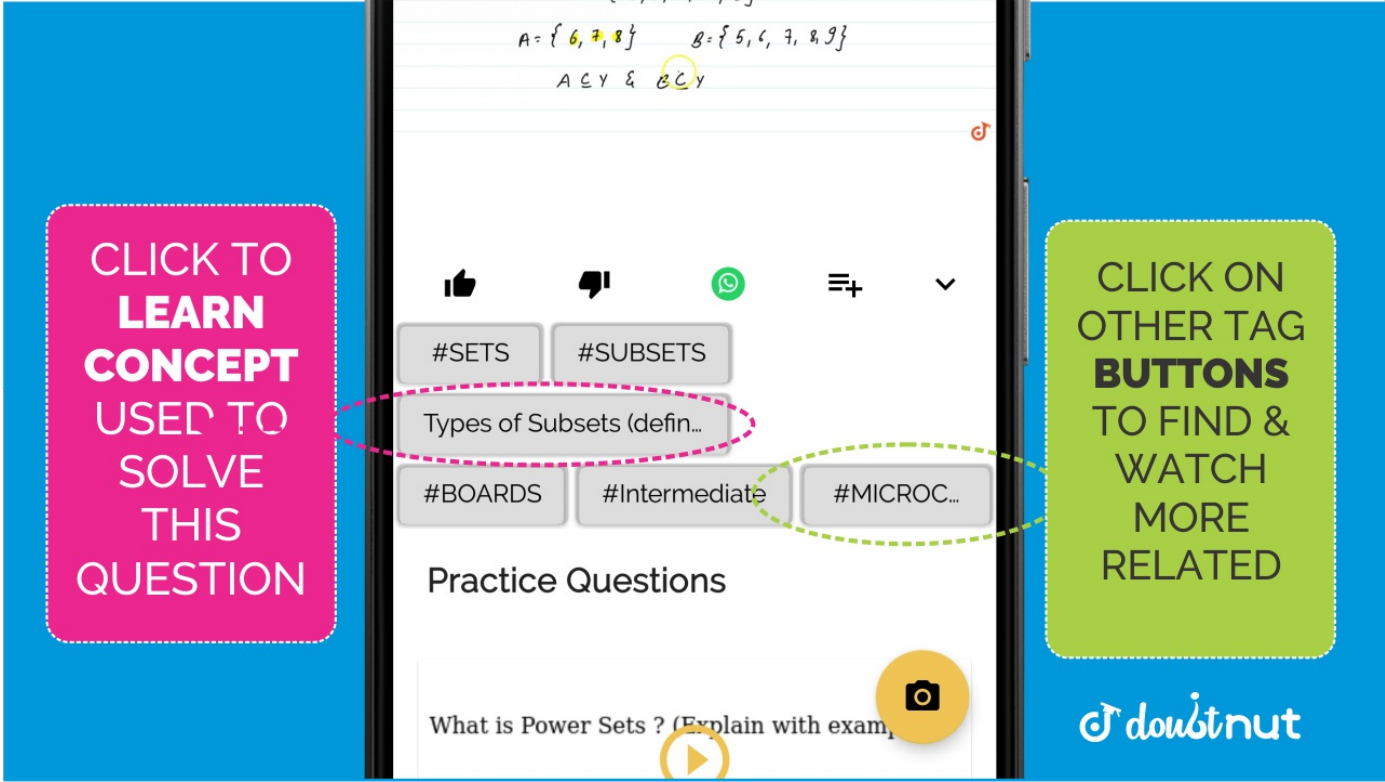
47

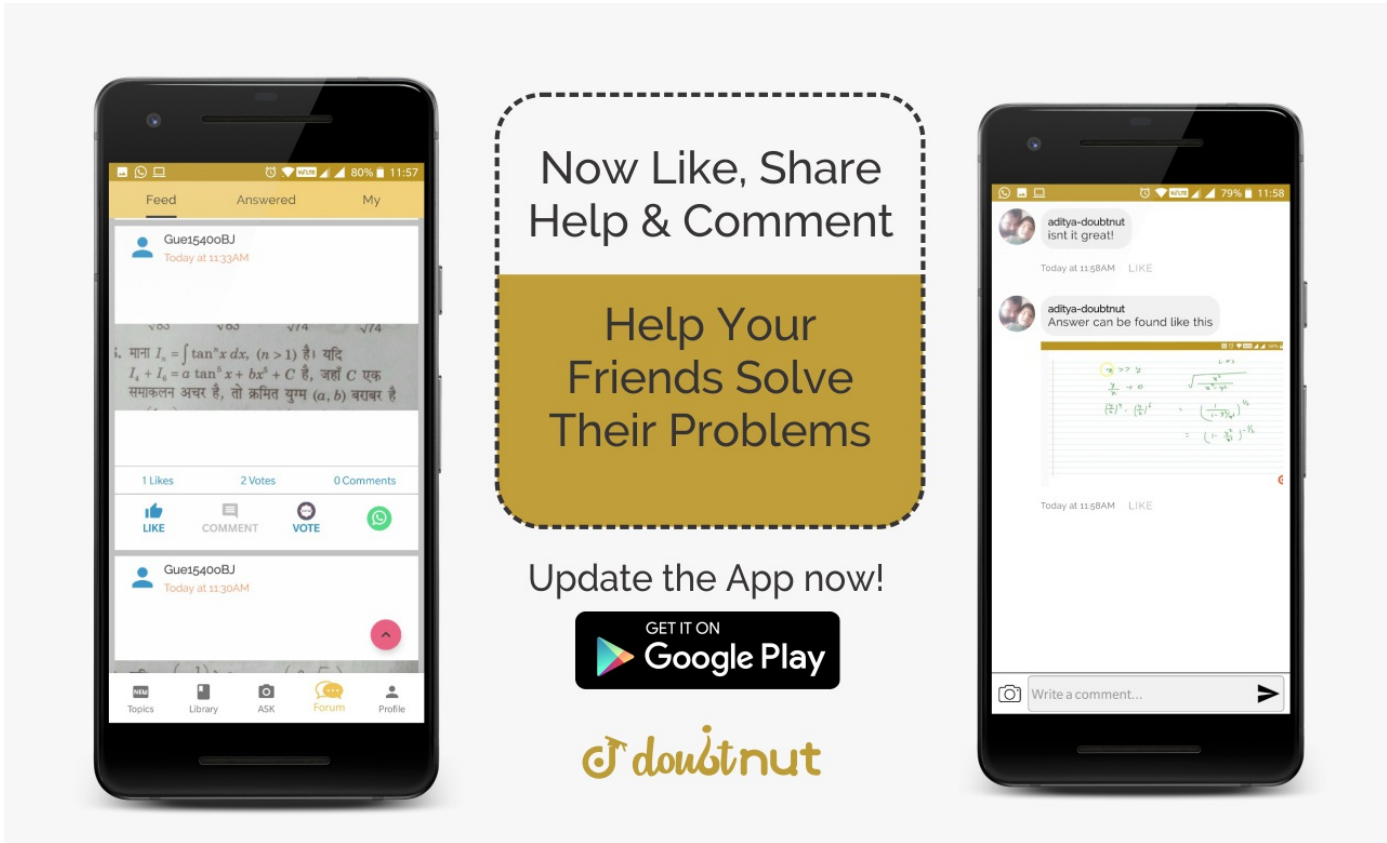
NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - MISCELLANEOUS EXERCISE - Q 12

Prove that:

$$\frac{9\pi}{8} - \frac{9}{4} \frac{\sin^{-1} 1}{3}$$
$$= \frac{9}{4} \frac{\sin^{-1} (2\sqrt{2})}{3}$$

[▶ Watch Free Video Solution on Doubtnut](#)

	
48	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - MISCELLANEOUS EXERCISE - Q 13 Solve the equations. $2 \tan^{-1}(\cos x)$ $= \tan^{-1}(2 \cos ex)$ ▶ Watch Free Video Solution on Doubtnut
49	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - MISCELLANEOUS EXERCISE - Q 14 Solve the equations. $\frac{\tan^{-1}(1 - x)}{1 + x}$ $= \frac{1}{2} \tan^{-1} x,$ $(x > 0)$ ▶ Watch Free Video Solution on Doubtnut
50	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - MISCELLANEOUS EXERCISE - Q 15 Solve the equations. $\sin(\tan^{-1} x), x$ < 1 (a) $\frac{x}{\sqrt{1 - x^2}}$ (B) $\frac{1}{\sqrt{1 - x^2}}$ (C) $\frac{1}{\sqrt{1 + x^2}}$ (D) $\frac{x}{\sqrt{1 + x^2}}$ ▶ Watch Free Video Solution on Doubtnut
	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS -

51	MISCELLANEOUS EXERCISE - Q 16 $\sin^{-1}(1 - x)$ $- 2\sin^{-1}x = \frac{\pi}{2}$, then x is equal to (A) $0, \frac{1}{2}$ (B) $1, \frac{1}{2}$ (C) 0 (D) $\frac{1}{2}$ ▶ Watch Free Video Solution on Doubtnut
52	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - MISCELLANEOUS EXERCISE - Q 17 $\tan^{-1}\left(\frac{x}{y}\right)$ $-\frac{\tan^{-1}(x - y)}{x + y}$ is equal to (A) $\frac{\pi}{2}$ (B) $\frac{\pi}{3}$ (C) $\frac{\pi}{4}$ (D) $-\frac{3\pi}{4}$ ▶ Watch Free Video Solution on Doubtnut
53	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - SOLVED EXAMPLES - Q 1 Find the principal value of $\sin^{-1}\left(\frac{1}{\sqrt{2}}\right)$ ▶ Watch Free Video Solution on Doubtnut
	
54	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - SOLVED EXAMPLES - Q 2 Find the principal value of $\cot^{-1}\left(\frac{-1}{\sqrt{3}}\right)$.

	▶ Watch Free Video Solution on Doubtnut
55	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - SOLVED EXAMPLES - Q 3 Show that (i) $\sin^{-1}\left(2x\sqrt{1-x^2}\right) = 2\sin^{-1}x, -\frac{1}{\sqrt{2}} \leq x \leq \frac{1}{\sqrt{2}}$ (ii) $\sin^{-1}\left(2x\sqrt{1-x^2}\right) = 2\cos^{-1}x, \frac{1}{\sqrt{2}} \leq x \leq 1$ ▶ Watch Free Video Solution on Doubtnut
56	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - SOLVED EXAMPLES - Q 4 Show that $\frac{\tan^{-1}1}{2} + \frac{\tan^{-1}2}{11} = \frac{\tan^{-1}3}{4}$ ▶ Watch Free Video Solution on Doubtnut
57	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - SOLVED EXAMPLES - Q 5 Express $\tan^{-1}\left(\frac{\cos x}{1-\sin x}\right), -\pi/2$ ▶ Watch Free Video Solution on Doubtnut
58	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - SOLVED EXAMPLES - Q 6 Write $\cot^{-1}\left(\frac{1}{\sqrt{x^2-1}}\right),$ $x > 1$ in the simplest form.

59

NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - SOLVED EXAMPLES - Q 7

Prove that

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

▶ Watch Free Video Solution on Doubtnut



Get Answer just with a click!

doubtnut has more than 1 Lakh Video Solutions

Update the App now!

GET IT ON Google Play

60

NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - SOLVED EXAMPLES - Q 8

Find the value of

$$\cos(\sec^{-1} x + \operatorname{cosec}^{-1} x), |x| \geq 1$$

▶ Watch Free Video Solution on Doubtnut

61

NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - SOLVED EXAMPLES - Q 9

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

▶ Watch Free Video Solution on Doubtnut

62	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - SOLVED EXAMPLES - Q 10 Show that $\frac{\sin^{-1} 3}{5} - \frac{\sin^{-1} 8}{17} = \frac{\cos^{-1}(84)}{85}$. ▶ Watch Free Video Solution on Doubtnut
63	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - SOLVED EXAMPLES - Q 11 Show that $\frac{\sin^{-1}(12)}{13} + \frac{\cos^{-1} 4}{5} + \frac{\tan^{-1}(63)}{16} = \pi$. ▶ Watch Free Video Solution on Doubtnut
64	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - SOLVED EXAMPLES - Q 12 Simplify $\tan^{-1} \left[\frac{a \cos x - b \sin x}{b \cos x + a \sin x} \right]$, if $\frac{a}{b} \tan x > -1$. ▶ Watch Free Video Solution on Doubtnut
65	NCERT - CLASS 12 - CHAPTER 2 INVERSE TRIGONOMETRIC FUNCTIONS - SOLVED EXAMPLES - Q 13 Solve $\tan^{-1} 2x + \tan^{-1} 3x = \frac{\pi}{4}$. ▶ Watch Free Video Solution on Doubtnut
	🐦 Download Doubtnut to Ask Any Math Question By just a click

🚀 Get A Video Solution For Free in Seconds

🚀 Doubtnut Has More Than 1 Lakh Video Solutions

🚀 Free Video Solutions of NCERT, RD Sharma, RS Aggarwal, Cengage (G.Tewani), Resonance DPP, Allen, Bansal, FIITJEE, Akash, Narayana, VidyaMandir

🤖 Download Doubtnut Today



The advertisement banner features a red background. In the center, a yellow box contains the text "Get Answer just with a click!" and "doubtnut has more than 1 Lakh Video Solutions". Below this, it says "Update the App now!" and includes a "GET IT ON Google Play" button. On the left, a smartphone displays the app's interface with handwritten math problems and a list of topics like #SETS, #SUBSETS, and #BOARDS. On the right, another smartphone shows the "Library" section with "NCERT Questions" and "Tips & Tricks" for trigonometry.