

By. Er. Dharmendra Sir

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DPM CLASSES

6th to 10th (Math's & Science), 11th & 12th (Physics, Chemistry, Math's)

TEST - PAPER (CBSE/NCERT)

INVERSE TRIGONOMETRY FUNCTIONS

SESSION -2024-25

CLASS - 12th

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Time : 1 hr \therefore Inverse Trigonometry Function : mm.

Q. 1 Find the value of $\sin\left(2\tan^{-1}\frac{1}{3}\right) + \cos\left(\tan^{-1}2\sqrt{2}\right)$

Q. 2. If $2\tan^{-1}(\cos\theta) = \tan^{-1}(2\operatorname{cosec}\theta)$, Then show that $\theta = \pi/4$, where n is any integer.

Q. 3. Prove that $\sin^{-1}\frac{8}{17} + \sin^{-1}\frac{3}{5} = \sin^{-1}\frac{77}{85}$



Q. 4. Show that $\sin^{-1}\frac{5}{13} + \cos^{-1}\frac{3}{5} = \tan^{-1}\frac{63}{16}$

Q. 5. Find the value of $4\tan^{-1}\frac{1}{5} - \tan^{-1}\frac{1}{239}$.

Q. 6. If $3\tan^{-1}x + \cot^{-1}x = \pi$ Then x equal to.

Q. 7. Prove that $\tan^{-1}\frac{1}{4} + \tan^{-1}\frac{2}{9} = \sin^{-1}\frac{1}{\sqrt{5}}$

Q. 8. Solve the equation $\cos(\tan^{-1}x) = \sin\left(\cot^{-1}\frac{3}{4}\right)$



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