

- $\sin^{-1} x + \cos^{-1} x = \frac{\pi}{2}, x \in [-1, 1]$
- $\tan^{-1} x + \cot^{-1} x = \frac{\pi}{2}, x \in \mathbb{R}$
- $\operatorname{cosec}^{-1} x + \sec^{-1} x = \frac{\pi}{2}, |x| \geq 1$
- $\tan^{-1} x + \tan^{-1} y = \tan^{-1} \frac{x+y}{1-xy}, xy < 1$
- $\tan^{-1} x - \tan^{-1} y = \tan^{-1} \frac{x-y}{1+xy}, xy > -1$
- $2 \tan^{-1} x = \sin^{-1} \frac{2x}{1+x^2}, |x| \leq 1$
- $2 \tan^{-1} x = \cos^{-1} \frac{1-x^2}{1+x^2}, x \geq 0$
- $2 \tan^{-1} x = \tan^{-1} \frac{2x}{1-x^2}, -1 < x < 1$

Working Ladder

Q. 1. Evaluate the following :

$$\tan^{-1} \sqrt{3} - \sec^{-1} (-2) + \operatorname{cosec}^{-1} \left(\frac{2}{\sqrt{3}} \right)$$

Sol :

Step 1 :

$$\therefore \tan^{-1}(\sqrt{3}) = \text{Angle in } \left(-\frac{\pi}{2}, \frac{\pi}{2}\right) \text{ whose tangent is } \sqrt{3} = \frac{\pi}{3} \quad \text{---(1)}$$

$$\text{Similarly } \sec^{-1}(-2) = \text{Angle in } [0, \pi] - \left\{\frac{\pi}{2}\right\} = \frac{2\pi}{3} \quad \text{---(2)}$$

$$\text{and } \operatorname{cosec}^{-1} \left(\frac{2}{\sqrt{3}} \right) = \text{Angle in } \left[-\frac{\pi}{2}, \frac{\pi}{2}\right] - \{0\} = \frac{\pi}{3} \quad \text{---(3)}$$

Step 2 :

$$\begin{aligned} \tan^{-1} \sqrt{3} - \sec^{-1} (-2) + \operatorname{cosec}^{-1} \left(\frac{2}{\sqrt{3}} \right) \\ = \frac{\pi}{3} - \frac{2\pi}{3} + \frac{\pi}{3} = \frac{2\pi}{3} - \frac{2\pi}{3} = 0 \end{aligned}$$

Competency Based Questions

Multiple Choice Questions 1 Mark

1. The value of $\sin^{-1} \left[\sin \left(-\frac{17\pi}{8} \right) \right]$ is :

- (A) $\frac{\pi}{8}$ (B) $-\frac{\pi}{8}$ (C) $\frac{\pi}{4}$ (D) $\frac{\pi}{2}$

(CBSE 2020, Set 65/1/1)

Ans. (B) $-\frac{\pi}{8}$

Detailed Solution :

$$\begin{aligned} \sin^{-1} \left[\sin \left(-\frac{17\pi}{8} \right) \right] &= -\sin^{-1} \left[\sin \left(\frac{17\pi}{8} \right) \right] \\ &(\because \sin^{-1}(-x) = -\sin^{-1} x) \end{aligned}$$

$$= -\sin^{-1} \left[\sin \left(2\pi + \frac{\pi}{8} \right) \right]$$

$$\begin{aligned} &= -\sin^{-1} \left[\sin \left(\frac{\pi}{8} \right) \right] \quad (\because \sin(2\pi + \theta) = \sin \theta) \\ &= -\frac{\pi}{8} \end{aligned}$$

2. The value of $\tan^{-1} \sqrt{3} - \cot^{-1} (-\sqrt{3})$ is :

(CBSE 2018 Code 65/1)

- (A) $-\frac{\pi}{2}$ (B) $\frac{\pi}{2}$ (C) $\frac{\pi}{4}$ (D) 2π

Ans. (A) $-\frac{\pi}{2}$

$$\frac{4\pi}{5}$$

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Léo Pomar



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