VIDYA mock marks

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

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 :

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

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

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

Step 2 :

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

$$= \frac{\pi}{3} - \frac{2\pi}{3} + \frac{\pi}{3} = \frac{2\pi}{3} - \frac{2\pi}{3} = 0$$

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 :

$$\sin^{-1}\left[\sin\left(-\frac{17\pi}{8}\right)\right] = -\sin^{-1}\left[\sin\left(\frac{17\pi}{8}\right)\right]$$

$(\because \sin^{-1}(-x) = -\sin^{-1} x)$

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

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

$$= -\frac{\pi}{8}$$

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

(CBSE 2018 Code 65/3)

(A) $-\frac{\pi}{2}$ (B) $\frac{\pi}{2}$

(C) $\frac{\pi}{4}$ (D) 2π

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

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Mcq For Trigononetric Functions Of 11 Frm Target Publications

Ying-Ying Zheng

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