Ques4.

The value of $\cos(\sin^{-1} x + \cos^{-1} x)$, $|x| \leq 1$ is _____ .

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

$$= \cos\frac{\pi}{2} = 0 \qquad \left(\because \sin^{-1} x + \cos^{-1} x = \frac{\pi}{2}\right)$$

(Sec 2.3 Q44)

Sol. 0

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

$$= \cos\frac{\pi}{2} = 0 \qquad \left(\because \sin^{-1} x + \cos^{-1} x = \frac{\pi}{2}\right)$$