Q.No.	DAY - 22
123	**EXERCISE 4.1** 4. Find the value of (i) $\sin^{-1}\left(\sin\left(\frac{2\pi}{3}\right)\right)$ (ii) $\sin^{-1}\left(\sin\left(\frac{5\pi}{4}\right)\right)$
124	5. For what value of x does $\sin x = \sin^{-1} x$?
125	6. Find the domain of the following (i) $f(x)=\sin^{-1}\left(\frac{x^2+1}{2x}\right)$ (ii) $g(x)=2\sin^{-1}(2x-1)-\frac{\pi}{4}$
126	7. Find the value of $\sin^{-1}\left(\sin\frac{5\pi}{9}\cos\frac{\pi}{9}+\cos\frac{5\pi}{9}\sin\frac{\pi}{9}\right)$
127	**Example 4.6** Find (i) $\cos^{-1}\left(-\frac{1}{\sqrt{2}}\right)$ (ii) $\cos^{-1}\left(\cos\left(-\frac{\pi}{3}\right)\right)$ (iii) $\cos^{-1}\left(\cos\left(\frac{7\pi}{6}\right)\right)$
128	**Example 4.7** Find the domain of $\cos^{-1}\left(\frac{2+\sin x}{3}\right)$