

INVERSE TRIGONOMETRIC FUNCTIONS

BASIC CONCEPTS OF INVERSE TRIGONOMETRIC FUNCTION

EXERCISE

Q.1 Find the value of $\sin \left[\frac{\pi}{3} - \sin^{-1} \left(-\frac{1}{2} \right) \right]$

Q.2 Find the value of cosec $[\sec^{-1}(-\sqrt{2}) + \cot^{-1}(-1)]$

Q.3 Find the domain of $y = \sec^{-1}(x^2 + 3x + 1)$

Q.4 Find the domain of $y = \cos^{-1} \left(\frac{x^2}{1+x^2} \right)$

Q.5 Find the domain of $y = \tan^{-1}(\sqrt{x^2 - 1})$

ANSWER KEY

1. 1

2. -1

3. $(-\infty, -3] \cup [-2, -1] \cup [0, \infty)$

4. R

5. $(-\infty, -1] \cup [1, \infty)$