

ECAT Mathematics Chapter 15 Inverse Trigonometric Functions

Sr	Questions	Answers Choice
1	$\sin(\sin^{-1}(1/2)) =$	A. 0 B. 2 C. ∞ D. 1/2
2	$\sin^{-1} x =$	A. $\tan^{-1} x$ B. $\operatorname{Cosec}^{-1} x$ C. $\operatorname{Cosec} x$ D. $\operatorname{cosec}^{-1}(1/x)$
3	Question Image	
4	Question Image	A. π B. $\pi / 2$ C. $\pi / 3$ D. $\pi / 4$
5	Question Image	
6	Question Image	A. 1 B. -1 C. 0 D. None of these
7	Question Image	
8	$\cos^{-1} 12/13 =$	A. $\tan^{-1} 3/5$ B. $\cot^{-1} 13/12$ C. $\sec^{-1} 13/12$ D. $\sin^{-1} 5/13$
9	$\sin^{-1}(-x) =$	A. x B. -x C. $-\sin^{-1} x$ D. $\cos^{-1} x$
10	Question Image	
11	$\text{If } \pi \leq x \leq 2\pi, \text{ then } \cos^{-1}(\cos x) =$	A. $\cos x$ B. -x C. $1/x$ D. -x
12	Question Image	
13	Question Image	
14	Question Image	
15	Question Image	A. 20 B. 10 C. 0 D. None of these
16	Question Image	A. π / 2 B. π / 3 C. π / 4 D. π / 5

$\text{rgb}(255, 255, 248); ><i>\pi</i>/ 4$

D. $\text{<i>\pi</i>$

17 $\sin^{-1}[-1/2] = \underline{\hspace{2cm}}$

18 Question Image

- A. 1/3
- B. 1
- C. 3
- D. None of these

19 $x = \sin^{-1} 3$, then the value of $\sin x$ is

- A. $\sqrt{3/2}$
- B. 3
- C. Not possible
- D. -1

20 Question Image