

ECAT (Pre-Eng) Mathematics Chapter 15 Inverse Trigonometric Functions

Sr	Questions	Answers Choice
1	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. $\pi / 3$ B. $\pi / 4$ C. $\pi / 2$ D. π
2	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 1 B. 7 C. 4 D. None of these
3	Cos-1(x)=	A. cos x B. x C. tan-1(-x) D. Sec-1 (1/x)
4	The solution set of the equation $\tan^{-1}x - \cot^{-1}x = \cos^{-1}(2 - x)$ is	A. [0, 1] B. [-1, 1] C. [1, 3] D. None of these
5	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
6	The domain of the principal tan function is	
7	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
8	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 2 B. 5 C. 7 D. None of these
9	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
10	If $\cos(2 \sin^{-1} x) = 1/9$, then what is the value of x?	A. 1/3 B. -2/3 C. 2/3 D. 2/3, -2/3
11	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
12	The value of $\sin^{-1} \frac{5}{13}$ is equal to	A. Cos 5/13 B. Tan ⁻¹ 5/12 C. cos ⁻¹ 5/12 D. 2 cos ⁻¹ 4/5
13	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 0 B. 1 C. -1 D. None of these
14	The value of $\cos(\cos^{-1} \frac{1}{2})$ is	A. 1/2 B. $\sqrt{3}/2$ C. -1/2 D. $1/\sqrt{2}$
15	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
16	Sec ⁻¹ x =	A. Cos ⁻¹ 1/x B. cosec ⁻¹ 1/x C. Cos ⁻¹ (-x) D. Tan ⁻¹ x
17	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. x = 3 B. x = 1/5 C. x = 0 D. None of these

18 Question Image

19 Question Image

- A. $\cos 2x = \sin 4y$
- B. $\cos 4y = \cos 2x$
- C. $\cos 3y = \sin 4x$
- D. None of these

20 The range of the principal sine function is