

ECAT (Pre-Eng) Mathematics Chapter 13 Trigonometric Functions & Their Graphs

Sr	Questions	Answers Choice
1	Domain of $\cos\theta$ is _____	A. Set of odd numbers B. Set of integers C. Set of real numbers D. Set of complex numbers
2	Tangent is a periodic function and its period is _____	A. 2π B. 3π C. π D. 4π
3	What is the period of $6 \sin x = ?$	A. π B. $-\pi$ C. $\pi/2$ D. 2π
4	Domain of $y = \cot x =$ _____	
5	Range of $3 \sin x$ is _____	A. [-3, 3] B. [-1, 1] C. R D. None of these
6	Period of $\tan 4x$ is _____	
7	What is the period of $\tan \frac{4}{3} x = ?$	A. $\pi/4$ B. $4\pi/3$ C. $7\pi/4$ D. $3\pi/4$
8	Range of $\sin x$ is _____	A. [-1, 1] B. R C. Negative real numbers D. None of these
9	Range of $\cos\theta$ is _____	
10	Domain of $\cot x$ is _____	
11	Period of $2 \cos x$ is _____	
12	The period of $\tan [x/3]$ is _____	A. 2π B. 4π C. π D. 3π

2023; >3<i style= text-align: center;">π</i></div>
D. 5<i>π</i>

13 Range of cosec θ is

- A. $W - \{y \mid -1 \leq y \leq 1\}$
- B. $R - \{y \mid -1 \leq y \leq 1\}$
- C. $O - \{y \mid -1 \leq y \leq 1\}$
- D. R

14 Range of $3 \cot x$ is _____

- A. [-1, 1]
- B. [-3, 3]
- C. R
- D. None of these

15 Domain of cosec θ is

16 Period of sec x is _____

17 2π is the period of

- A. $\sin x$
- B. $\tan x$
- C. $\cot x$
- D. all circular function

18 The period of cosec $10x$ is _____

19 Range of cot x is _____

- A. [-1, 1]
- B. R
- C. Negative real numbers
- D. $R - \{x \mid -1 \leq x \leq 1\}$

20 Domain of cos x is _____