

ECAT Mathematics Chapter 13 Trigonometric Functions and their Graphs Online Test

Sr	Questions	Answers Choice
1	The period of $3 \sin x$ is	A. 2π B. 9π C. 3π D. 5π
2	The period of $\cos(7x-5)$ is	A. $\pi/7$ B. $7\pi/2$ C. $\pi/2$ D. $2\pi/7$
3	The period of $\sin(2x)$ is	A. $\pi/2$ B. $-\pi/2$ C. π D. $\pi/3$
4	The period of $\sin(2x)$ is	A. $\pi/2$ B. $-\pi/2$ C. π D. $\pi/3$
5	The period of $2 \cos x$ is	A. 30π B. 7π C. 5π D. 2π
6	The period of $\tan x/7$ is	A. 3π B. 7π C. 15π D. 5π
7	Sine is a periodic function and its period is _____	A. <i>π</i> B. s C. <i>π</i> D. <div style="text-align: center;"> >4<i style="text-align: center;">π</i></div>
8	Tangent is a periodic function and its period is _____	A. <i>π</i> B. <i>π</i> C. <i>π</i> D. <i>π</i>
		A. <i>π</i>

9 The period of $\tan x^3$ is _____

34); font-family: "Times New Roman"; font-size: 24px; text-align: center; background-color: rgb(255, 255, 224);"><i> π </i></div>
B. <div style="text-align: start;">4<i style="text-align: center;"> π </i></div>
C. <div style="text-align: start;">3<i style="text-align: center;"> π </i></div>
D. 5<i> π </i>

10 The period of $\operatorname{cosec} 10x$ is _____

11 $\tan(\pi - \theta) =$ _____

A. - $\sin$ <i> θ </i>
B. - $\tan$ <i> θ </i>
C. - $\cos$ <i> θ </i>
D. - $\cot$ <i> θ </i>

12 The Domain of $y = \sin x$ is _____

A. Set of real numbers
B. Rational
C. Irrational no.
D. None of above

13 The range of $y = \sin x$ is _____

A. [1, -1]
B. [-1, 1]
C. [0, -1]
D. [-<i> ∞ </i>+<i> ∞ </i>]

14 Domain of $y = \cot x =$ _____

A. -<i> ∞ </i>> y >+<i> ∞ </i>
B. -<i> ∞ </i>> x >+<i> ∞ </i>

15 The range of $y = \cot x =$ _____

C. $-\infty < y < \infty$

D. None of above

16	Domain of tangent function is	
17	The function sine and Cosine have the closed interval as their range	A. $[1, 0]$ B. $[-1, 1]$ C. $[0, 1]$ D. $[-1, 2]$
18	Period of Cotangent function is	A. π B. $-\pi$ C. 0 D. -2π
19	Period of Tangent function is	A. 0° B. $-\pi$ C. π D. 2π
20	Period of Sine and Cosine function is	A. π B. 2π C. π D. 2π
21	Range of $\operatorname{cosec} \theta$ 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
22	Range of $\sec \theta$ is	A. $Z = \{x \mid -1 \leq x \leq 1\}$ B. $W = \{x \mid -1 \leq x \leq 1\}$ C. $R = \{x \mid -1 \leq x \leq 1\}$ D. R
23	Domain of $\operatorname{cosec} \theta$ is	
24	Domain of $\sec \theta$ is	

A. $-\infty < y < \infty$

25

Range of $\cot \theta$ is

Remarks: font-size: 24px; text-align: center; background-color: rgb(255, 255, 248);"><i>∞</i>to -<i>∞</i>)</div>
B. (-1 to +1)
C. (-5 to +5)
D. Set of even numbers only

26

Range of $\tan \theta$ is

A. Set of complex numbers
B. Set of real numbers
C. Set of odd numbers
D. Set of positive integers only

27

Domain of $\cot \theta$ is

28

Range of $\cos \theta$ is

29

Range of $\sin \theta$ is

30

Domain of $\cos \theta$ is

A. Set of odd numbers
B. Set of integers
C. Set of real numbers
D. Set of complex numbers