

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

Sr	Questions	Answers Choice
1	Period of Tangent function is	<p>A. 0°</p> <p>B. π</p> <p>C. 2π</p> <p>D. $\pi/2$</p>
2	Range of $\tan \theta$ is	<p>A. Set of complex numbers</p> <p>B. Set of real numbers</p> <p>C. Set of odd numbers</p> <p>D. Set of positive integers only</p>
3	Tangent is a periodic function and its period is _____	<p>A. 2π</p> <p>B. 3π</p> <p>C. π</p> <p>D. 4π</p>
4	The range of $y = \cot x =$ _____	<p>A. $-\infty < y < \infty$</p> <p>B. $-\infty < y < \infty$</p> <p>C. $-\infty < y < \infty$</p> <p>D. $-\infty < y < \infty$</p>

font-size: 24px; color: rgb(34, 34, 34); text-align: center; background-color: rgb(255, 255, 248);"><i>∞ < /i>y < +<i>∞</i>
D. None of above

5	Domain of $\cot \theta$ is	
6	What is the period of $\sin 2x/3 \cos 4x$?	A. π B. 2π C. $\pi/2$ D. $\pi/3$
7	The range of $y = \sin x$ is _____	A. [1, -1] B. [-1, 1] C. [0, -1] D. [-<i>∞</i>+<i>∞</i>]
8	Domain of $\cos \theta$ is	A. Set of odd numbers B. Set of integers C. Set of real numbers D. Set of complex numbers
9	Tangent isfunction	A. Inverse B. one-one C. in-to D. Periodic
10	The function sine and Cosine have the closed interval as their range	A. [1, 0] B. [-1, 1] C. [0, 1] D. [-1, 2]
11	Period of $\tan 4x$ is _____	
12	Domain of $\tan x$ is _____	
13	Range of $\sin \theta$ is	
14	Domain of $y = \cot x =$ _____	
15	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
16	What is the period of $\cos 6x$ =?	A. $\pi/2$ B. $\pi/3$ C. $\pi/4$ D. π
17	Range of $\operatorname{cosec} x$ is _____	A. $\{-1, 1\}$ B. R C. Negative real numbers D. $R - \{x \mid -1 \leq x \leq 1\}$
18	The number of x-intercepts of $y = \sin x$ in his period	A. 0 B. 1 C. 2 D. 3
19	A function $f(x)$ is said to be the periodic function if for all x in the domain of f , there exists a smallest positive number p such the $f(x + p) =$ _____	A. $f(p)$ B. $f(x)$ C. $f(0)$ D. None of these
20	What is the period of $\tan 4/3 x$ =?	A. $\pi/4$ B. $4\pi/3$ C. $7\pi/4$ D. $3\pi/4$