

ECAT Mathematics Chapter 13 Trigonometric Functions and their Graphs Online Test

Sr	Questions	Answers Choice
1	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 $f(x + p) = \underline{\hspace{2cm}}$	A. $f(p)$ B. $f(x)$ C. $f(0)$ D. None of these
2	Range of $\cos x$ is _____	A. $[-1, 1]$ B. $\mathbb{R}$ C. Negative real numbers D. $\mathbb{R} - \{x \mid -1 \leq x \leq 1\}$
3	The period of $\cot 8x$ is	A. $\pi/10$ B. $9\pi/7$ C. $\pi/9$ D. $\pi/8$
4	Period of $2 \cos x$ is _____	
5	The period of $\sin 2x$ is	A. $\pi/2$ B. $-\pi/2$ C. π D. $\pi/3$
6	The period of the trigonometric function $y = \sin x \cos x$ is	A. 2π B. π C. 4π D. $\pi / 2$
7	Period of $\operatorname{cosec} x$ is _____	
8	Range of $\operatorname{cosec} \theta$ is	A. $\mathbb{W} - \{y \mid -1 \leq y \leq 1\}$ B. $\mathbb{R} - \{y \mid -1 \leq y \leq 1\}$ C. $\mathbb{O} - \{y \mid -1 \leq y \leq 1\}$ D. $\mathbb{R}$
9	Range of $\operatorname{cosec} x$ is _____	A. $\{-1, 1\}$ B. $\mathbb{R}$ C. Negative real numbers D. $\mathbb{R} - \{x \mid -1 \leq x \leq 1\}$
10	Period of $\cos x$ is _____	
11	Period of Sine and Cosine function is	A. <i>π</i> B. <i>2π</i> C. <i>π</i> D. <i>2π</i>
12	Period of $\tan x$ is _____	
13	Domain of $\sec \theta$ is	
14	The Domain of $y = \sin x$ is _____	A. Set of real numbers B. Rational C. Irrational no. D. None of above

		D. None of above
15	The period of $\sin x/2 = \cos x/3$ is	A. 2p B. 12p C. 13p D. 7p
16	Tangent isfunction	A. Inverse B. one-one C. in-to D. Periodic
17	Range of $\cot x$ is _____	A. [-1, 1] B. R C. Negative real numbers D. $\mathbb{R} - \{x \mid -1 \leq x \leq 1\}$
18	What is the period of $\cos 6x$ =?	A. $\pi/2$ B. $\pi/3$ C. $\pi/4$ D. π
19	Range of $3 \cot x$ is _____	A. [-1, 1] B. [-3, 3] C. R D. None of these
20	Period of $\sec x$ is _____	