

ECAT Mathematics Chapter 13 Trigonometric Functions and their Graphs

Sr	Questions	Answers Choice
1	The Domain of $y = \sin x$ is _____	A. Set of real numbers B. Rational C. Irrational no. D. None of above
2	Tangent isfunction	A. Inverse B. one-one C. in-to D. Periodic
3	Question Image	
4	The number of x-intercepts of $y = \sin x$ in his period	A. 0 B. 1 C. 2 D. 3
5	Range of $3 \cot x$ is _____	A. [-1, 1] B. [-3, 3] C. R D. None of these
6	Domain of $\tan x$ is _____	
7	The period of $ \sin 2x $ is	A. $\pi/2$ B. $-\pi/2$ C. π D. $\pi/3$
8	Range of $\operatorname{cosec} x$ is _____	A. {-1, 1} B. R C. Negative real numbers D. $R - \{x \mid -1 \leq x \leq 1\}$
9	$\tan(\pi - \theta) =$ _____	A. $-\sin \theta$ B. $-\tan \theta$ C. $-\cos \theta$ D. $-\cot \theta$
10	What is the period of $6 \sin x = ?$	A. π B. $-\pi$ C. $\pi/2$ D. 2π
11	Domain of $2 \cos x$ is _____	A. [-2, 2] B. R C. Negative real numbers D. None of these
12	What is the period of $\sin 2x/3 \cos 4x = ?$	A. π B. 2π C. $\pi/2$ D. $\pi/3$

13	Range of $\sin x$ is _____	A. [-1, 1] B. R C. Negative real numbers D. None of these
14	Period of $\tan 4x$ is _____	
15	The period of $2 \cos x$ is	A. 30π B. 7π C. 5π D. 2π
16	Domain of $\cot \theta$ is	
17	The period of $\operatorname{cosec} 10x$ is _____	
18	Domain of $\cos x$ is _____	
19	The range of $y = \sin x$ is _____	A. [1, -1] B. [-1, 1] C. [0, -1] D. [- ∞ +∞]
20	Domain of $\operatorname{cosec} \theta$ is	