

ECAT Mathematics Chapter 13 Trigonometric Functions & Their Graphs

Sr	Questions	Answers Choice
1	The period of the trigonometric function $y = \sin x \cos x$ is	A. 2π B. π C. 4π D. $\pi/2$
2	Domain of $\operatorname{cosec} x$ is _____	
3	The period of $\sin x/2 = \cos x/3$ is	A. 2π B. 12π C. 13π D. 7π
4	Range of $\cot x$ is _____	A. $[-1, 1]$ B. \mathbb{R} C. Negative real numbers D. $\mathbb{R} - \{x \mid -1 \leq x \leq 1\}$
5	Question Image <input style="width: 600px; height: 20px;" type="text"/>	
6	Period of Tangent function is	A. 0° B. - <i>\pi</i> C. <i>\pi</i> D. 2<i>\pi</i>
7	Range of $\sin \theta$ is	
8	The period of $ \sin 2x $ is	A. $\pi/2$ B. $-\pi/2$ C. π D. $\pi/3$
9	Domain of $\cot \theta$ is	
10	Domain of $3 \sin x$ is _____	A. $[-3, 3]$ B. \mathbb{R} C. Positive real numbers D. None of these
11	Sine is a periodic function and its period is _____	A. <i>\pi<="" i><="" span><br="" style='font-family: "Times New Roman"; font-size: 24px; color: rgb(34, 34, 34); text-align: center; background-color: rgb(255, 255, 224);'> B. s C. 2<i>\pi</i> D. 4<="" >\pi<="" <="" div>="" i><="" span><i="" style="text-align: center; background-color: center;" td="">
12	Period of $\sin 3x$ is _____	

13	2π is the period of	<p>A. $\sin x$</p> <p>B. $\tan x$</p> <p>C. $\cot x$</p> <p>D. all circular function</p>
14	What is the period of $6 \sin x$?	<p>A. π</p> <p>B. $-\pi$</p> <p>C. $\pi/2$</p> <p>D. 2π</p>
15	Domain of $\sin x$ is _____	
16	The period of $\tan x/7$ is	<p>A. 3π</p> <p>B. 7π</p> <p>C. 15π</p> <p>D. 5π</p>
17	Range of $3 \sin x$ is _____	<p>A. $[-3, 3]$</p> <p>B. $[-1, 1]$</p> <p>C. \mathbb{R}</p> <p>D. None of these</p>
18	Period of $3 \sin x$ is _____	
19	Range of $2 \tan x$ is _____	<p>A. $[-2, 2]$</p> <p>B. $-1 < x < 1$</p> <p>C. \mathbb{R}</p> <p>D. None of these</p>
20	Range of $\operatorname{cosec} x$ is _____	<p>A. $\{-1, 1\}$</p> <p>B. \mathbb{R}</p> <p>C. Negative real numbers</p> <p>D. $\mathbb{R} - \{x \mid -1 < x < 1\}$</p>