

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

Sr	Questions	Answers Choice
1	Domain of $3 \sin x$ is _____	A. [-3, 3] B. $\mathbb{R}$ C. Positive real numbers D. None of these
2	Period of $\sin x$ is	A. $2\pi$ B. $3\pi$ C. $\pi$ D. $4\pi$
3	Tangent is a periodic function and its period is _____	A. $\pi$ B. $2\pi$ C. $\frac{\pi}{2}$ D. $\frac{\pi}{4}$
4	Domain of $y = \cot x =$ _____	A. Set of odd numbers B. Set of integers C. Set of real numbers D. Set of complex numbers
5	Domain of $\cos \theta$ is	A. Set of real numbers B. Rational C. Irrational no. D. None of above
6	The Domain of $y = \sin x$ is _____	A. $-\sin \theta$ B. $-\tan \theta$ C. $-\cos \theta$ D. $-\cot \theta$
7	$\tan(\pi - \theta) =$ _____	A. Set of real numbers B. Set of complex numbers C. Set of natural numbers D. Set of even numbers
8	Domain of $\sin \theta$ is	A. $(-\infty, \infty)$ B. $(-\frac{\pi}{2}, \frac{\pi}{2})$ C. $(-\frac{\pi}{2}, \frac{\pi}{2})$ D. $(-\frac{\pi}{2}, \frac{\pi}{2})$

9	Range of $\cot \theta$ is _____	<p style="color: green; text-align: center;">to <math>-\infty</math></p> <p>A. <math>\pi</math>  B. <math>2\pi</math>  C. <math>\pi/2</math>  D. <math>\pi/3</math></p>
10	What is the period of $\sin 2x/3 \cos 4x$ ?	<p>A. <math>\pi</math>  B. <math>2\pi</math>  C. <math>\pi/2</math>  D. <math>\pi/3</math></p>
11	Domain of $\cos x$ is _____	
12	Range of $\sec x$ is _____	<p>A. <math>[-1, 1]</math>  B. <math>\mathbb{R}</math>  C. Negative real numbers  D. <math>\mathbb{R} = \{x \mid -1 \leq x \leq 1\}</math></p>
13	Period of $\tan 4x$ is _____	
14	Domain of tangent function is _____	
15	Sine is a periodic function and its period is _____	<p>A. <math>\pi</math>  B. <math>s</math>  C. <math>2\pi</math>  D. <math>4\pi</math></p>
16	graph of sine function is bounded between lines _____	<p>A. <math>y \pm 1 = 0</math>  B. <math>x \pm 1 = 0</math>  C. <math>x \pm y = 0</math>  D. None of these</p>
17	Period of $\cos 2x$ is _____	
18	Domain of $\sin x$ is _____	
19	Range of $\cos x$ is _____	<p>A. <math>[-1, 1]</math>  B. <math>\mathbb{R}</math>  C. Negative real numbers  D. <math>\mathbb{R} - \{x \mid -1 \leq x \leq 1\}</math></p>
20	Period of Cotangent function is _____	<p>A. <math>\pi</math>  B. <math>-\pi</math>  C. <math>0</math>  D. <math>-2\pi</math></p>