

ECAT (Pre-Eng) Mathematics Chapter 16 Solution of Trigonometric Equations

Sr	Questions	Answers Choice
1	The solution set of the equation $1 + \cos x = 0$ is _____	D. none of these
2	The solution set of the equation $4 \cos^2 x - 3 = 0$ is	D. none of these
3	Question Image	A. 30° B. 45° C. 60° D. 75°
4	If $\sin 6\theta + \sin 4\theta + \sin 2\theta = 0$, then $\theta =$	
5	Question Image	
6	Question Image	
7	General solution of $\tan 5\theta = \cot 2\theta$ is	
8	The number of solution of the equation $\tan x + \sec x = 2 \cos x$ lying in the interval $[0, 2\pi]$ is	A. 0 B. 1 C. 2 D. 3
9	The general value of θ satisfying the equation $2 \sin^2 \theta - 3 \sin \theta - 2 = 0$ is	
10	Question Image	
11	The general solution of $\tan 3x = 1$ is	
12	Question Image	
13	Question Image	
14	The number of values of x in the interval $[0, 5\pi]$ satisfying the equation $3 \sin^2 x - 7 \sin x + 2 = 0$ is	A. 0 B. 5 C. 6 D. 10
15	Question Image	D. all
16	Question Image	A. trigonometric equation B. conditional equation C. identity D. None
17	Question Image	
18	By expressing $\cos 113^\circ$ in terms of trigonometrical ratios, answer will be	A. $-\cos 76^\circ = -0.7093$ B. $-\cos 65^\circ = -0.4258$ C. $-\cos 67^\circ = -0.3907$ D. $-\cos 62^\circ = -0.8520$
19	If $\sin A = \sin B$, $\cos A = \cos B$, then the value of A in terms of B is	
20	One root of the equation $\cos x - x + 1/2 = 0$ lies in the interval	