

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

Sr	Questions	Answers Choice
1	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 1 B. 2 C. 3 D. None of these
2	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. No solution B. One real solution C. More than one real solution D. None of these
3	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
4	The solution set of the equation $4 \cos^2 x - 3 + 0$ is	D. none of these
5	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
6	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
7	Question Image <input style="width: 500px; height: 20px;" type="text"/>	A. 7 B. 5 C. 6 D. None of these
8	If $\sin 6\theta + \sin 4\theta + \sin 2\theta$, then $\theta =$	
9	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
10	If $\sin A = \sin B$, $\cos A = \cos B$, then the value of A in terms of B is	
11	The solution set of trigonometric equation contains	A. one element B. two elements C. three elements D. Infinite elements
12	The solution of the equation $3 \tan^2 x = 1$ is _____	D. none of these
13	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
14	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
15	Question Image <input style="width: 500px; height: 20px;" type="text"/>	
16	For Cosine Rule of any triangle ABC, b^2 is equal to	A. $a^2 + c^2 - 2ac \cos B$ B. $a^2 + c^2 - 2ab \cos A$ C. $a^2 + c^2 - 2ac \cos B$ D. $a^2 + c^2 - 3ab \cos A$

$c^2 = 4bc \cos A$

17 One root of the equation $\cos x - x + 1/2 = 0$ lies in the interval

18 By expressing $\sin 125^\circ$ in terms of trigonometrical ratios, answer will be

- A. $\sin 65^\circ = 0.9128$
- B. $\sin 55^\circ = 0.8192$
- C. $\sin 70^\circ = 0.5384$
- D. $\sin 72^\circ = 0.1982$

19 The solution of the equation $\cos^2 \theta + \sin \theta + 1 = 0$ lies in the interval

20 Question Image