

## ECAT Pre General Science Mathematics Chapter 16 Solution of Trigonometric Equations Online Test

Sr	Questions	Answers Choice
1	Considering Cosine Rule of any triangle ABC, possible measures of angle A includes	A. $\angle A$ is obtuse B. $\angle A$ is acute C. $\angle A$ is right-angle D. All of above
2	In a triangle ABC, if angle A = $72^\circ$ , angle B = $48^\circ$ and c = 9 cm then $\hat{C}$ is	A. $69^\circ$ B. $66^\circ$ C. $60^\circ$ D. $63^\circ$
3	For Cosine Rule of any triangle ABC, $b^2$ is equal to	A. $a^2 + c^2 - 2ac \cos B$ B. $a^2 + c^2 + 2ac \cos A$ C. $a^2 + c^2 - 2ac \cos A$ D. $a^2 + c^2 + 2ac \cos B$
4	Question Image	A. trigonometric equation B. conditional equation C. identity D. None
5	Question Image	
6	Question Image	D. both a & c
7	Question Image	
8	Question Image	
9	Question Image	
10	Question Image	D. all
11	General solution of $1 + \cos x = 0$ is	A. one element B. two elements

- C. three elements  
D. Infinite elements

The solution set of  $\sin x + \cos x = 0$  is

A.  $\{x \mid x = \frac{3\pi}{4} + 2k\pi, k \in \mathbb{Z}\} \cup \{x \mid x = \frac{7\pi}{4} + 2k\pi, k \in \mathbb{Z}\}$   
B.  $\{x \mid x = \frac{3\pi}{4} + k\pi, k \in \mathbb{Z}\}$   
C.  $\{x \mid x = \frac{3\pi}{4} + 2k\pi, k \in \mathbb{Z}\}$   
D. none of these

Question Image

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15 Question Image

**I** and **quadrants**  
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D. none of these

16 Question Image

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17 Question Image

18 Question Image

19 Question Image

20 Question Image

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21 Question Image

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22 Question Image

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23 The solution set of the equation  $1 + \cos x = 0$  is \_\_\_\_\_

D. none of these

24 The solution set of the equation  $4 \cos^2 x - 3 = 0$  is \_\_\_\_\_

D. none of these

25 The solution of the equation  $3 \tan^2 x = 1$  is \_\_\_\_\_

D. none of these

26 Question Image

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