Trigonometry Questions Overview

Trigonometry Questions have a good weightage in the Ssc Chsl Exam and the type of question asked in Ssc Chsl exam is similar to the question mentioned below. It has been solved and explained by KD Live Experts under the guidance of Neetu Mam and they have tried to elaborate the concept used in Trigonometry Questions.

Question On Trigonometry

If tan = (({{sqrt{2y-2y^2}}over2y}) then, find the value of (({{sqrt{2y(y+1)}}} imes (sin heta+cos heta))

Difficulty : Moderate

Average Time : 32 Seconds

Trigonometry Questions Options

1. $5\sqrt3\over\sqrt5$

2. 3y

3. $ {{\sqrt{5y-3y^3}}+3y}$

4. $ {{\sqrt{2y-2y^2}}+2y}$

Trigonometry Questions Solution

The correct answer is **option 4** i.e.$ {{\sqrt{2y-2y^2}}+2y}$

Given,

tan = $({{\sqrt{2y-2y^2}}\over2y}) = (P\over B$)
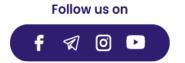
$H^2 = B^2 + P^2$

$H^2 = 4y^2 + 2y - 2y^2 = 2y^2 + 2y$

H = $\sqrt{2y(y+1)}$

sin = $(P\over H) = ({{\sqrt{2y-2y^2}}\over\sqrt{2y(y+1)}}$)

cos = $(B\over H) = ({2y}\over\sqrt{2y(y+1)}$)

Hence, the value of $({{\sqrt{2y(y+1)}}} \times (\sin\theta+\cos\theta)$)

$$\sqrt{2y(y+1)} \times \left(\frac{\sqrt{2y-2y^2}}{\sqrt{2y(y+1)}} + \frac{2y}{\sqrt{2y(y+1)}}\right)$$

$$\sqrt{2y(y+1)} \times \left(\frac{\sqrt{2y-2y^2}+2y}{\sqrt{2y(y+1)}}\right)$$

$$\sqrt{2y-2y^2}+2y$$

Trigonometry Questions Tips and Tricks

1. Try to solve Trigonometry Questions without taking any help from the solutions.
2. Trigonometry Questions require proper usage of concept so firstly read the question thoroughly and then use the right concept.
3. In case you're not able to solve the question in less than 30 seconds in the exam then you should skip the question and move to the next question.

Daily Current Affairs

STUDY CONTENTS THAT GET YOU SELECTED

5 LAKH+ STUDENTS
Already enrolled with our selection focused courses.

30+ EXPERT INSTRUCTORS
Our instructors are the best In the industry

10000+ HOURS OF VIDEOS
All videos are well-explained for you to get every bit out of the videos

FREE PDF

CURRENT AFFAIRS

KD Live is providing Current Affairs on a daily basis for SSC and a current affairs quiz too for the practice. For the Current Affairs please Click Here and for the current affairs quiz please Click Here.

KD Live Free Offerings

FREE Offerings

KD Live is Offering Every Information and Study Material required for the self study. Please click on the following links for accessing those.

Study Plan
General Science
General Awareness
General Knowledge
Quantitative Aptitude

Follow us on

Address : 1997, Mukherjee Nagar, 110009
Email : online@kdcampus.org
Call : +91 95551 08888

Download the App
GET IT ON Google Play

Further Guidance on Trigonometry Questions

For Asking any query on Trigonometry Questions please mail Send Email or you can fill the form at KD Live.
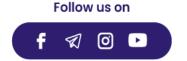
About KD Live

KD live has an expertise in providing apt explanations for the Trigonometry Questions since 2008. More than 10 lakh aspirants have cleared competitive exams under the guidance of Neetu Mam. Study.kdcampus.live is providing free information on various topics and for the Ssc Chsl Exam you can refer the following link Click Here however if you want to practice more questions then please refer the following link Click Here.

About Neetu Mam

Neetu Mam is primarily passionate for the English language and teaching from the last 20 years however for the Trigonometry Questions. She has guided her team to provide the best explanation for the question.