

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 $((1^4 + \tan^4 \theta)) \times \{\cos^4 \theta\} \times \{1 \over \operatorname{cosec} \theta\} = \{\operatorname{cosec} \theta + \operatorname{ncos}^3 \theta\} \over \operatorname{cosec}^2 \theta$

Difficulty : Moderate

Average Time : 31 Seconds

Trigonometry Questions Options

1. 0
2. 1
3. -1
4. -2

Trigonometry Questions Solution

The correct answer is **option 4** i.e. - 2.

Solving L.H.S

$$\{(1^4 + \tan^4 \theta)\} \times \{\cos^4 \theta\} \times \{1 \over \operatorname{cosec} \theta\}$$

$$\{((1^2)^2 + (\tan^2 \theta)^2)\} \times \{\cos^4 \theta\} \times \{1 \over \operatorname{cosec} \theta\}$$

$$\{((1^2)^2 + (\tan^2 \theta)^2) + 2 \tan \theta - 2 \tan \theta\} \times \{\cos^4 \theta\} \times \{1 \over \operatorname{cosec} \theta\}$$

$$\{(1 + \tan^2 \theta)^2 - 2 \tan \theta\} \times \{\cos^4 \theta\} \times \{1 \over \operatorname{cosec} \theta\}$$

$$\{(\sec^2 \theta)^2 - 2 \tan \theta\} \times \{\cos^4 \theta\} \times \{1 \over \operatorname{cosec} \theta\}$$

$$\{(\{1 \over \cos^4 \theta\} - 2 \sin \theta \over \cos \theta)\} \times \{\cos^4 \theta\} \times \{1 \over \operatorname{cosec} \theta\}$$

$$\{(1 - 2 \sin \theta \cos^3 \theta) \over \cos^4 \theta\} \times \{\cos^4 \theta\} \times \{1 \over \operatorname{cosec} \theta\}$$

$$\left((1 - 2\sin^2\theta \cos^3\theta) \right) \times \left(\frac{1}{\operatorname{cosec}\theta} \right)$$

$$\left((1 - 2\sin^2\theta \cos^3\theta) \right) \over \operatorname{cosec}\theta$$

$$\left(\frac{1}{\operatorname{cosec}\theta} - \frac{2\cos^3\theta}{\operatorname{cosec}^2\theta} \right)$$

$$\left(\operatorname{cosec}\theta - \frac{2\cos^3\theta}{\operatorname{cosec}^2\theta} \right)$$

Comparing with R.H.S

$$\left(\operatorname{cosec}\theta - \frac{2\cos^3\theta}{\operatorname{cosec}^2\theta} \right) = \left(\operatorname{cosec}\theta + \frac{\cos^3\theta}{\operatorname{cosec}^2\theta} \right)$$

$$n = -2$$

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.

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Further Guidance on Trigonometry Questions

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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.