

Mathematics

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(Chapter 2)(Inverse Trigonometric Functions)

(Class XII)

(Exemplar Problems)

Objective Type Questions

State **True** or **False** for the following statement:

Question 50:

The value of the expression $(\cos^{-1}x)^2$ is equal to \sec^2x .

 **Answer 50:**

False

We know that

$$(\cos^{-1}x)^2 = \left(\sec^{-1}\frac{1}{x}\right)^2 \neq \sec^2x$$

