

Mathematics

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(Chapter 2)(Inverse Trigonometric Functions)

(Class XII)

(Exemplar Problems)

Objective Type Questions

Choose the correct answers from the given four options in the following (MCQ):

Question 20:

Which of the following is the principal value branch of $\cos^{-1}x$?

(A) $\left[-\frac{\pi}{2}, \frac{\pi}{2}\right]$

(B) $(0, \pi)$

(C) $[0, \pi]$

(D) $(0, \pi) - \left\{\frac{\pi}{2}\right\}$

Answer 20:

(C) $[0, \pi]$

Solution:

As we know that the principal value branch of $\cos^{-1}x$ is (C) $[0, \pi]$.

Hence, the option (B) is correct.

