

Trigonometric Functions - Class XI

Past Year JEE Questions

Questions

Question: 01

The period of $\sin^2\theta$ is

- A. π^2
- B. π
- C. 2π
- D. $\pi/2$

Solutions

Solution: 01

Explanation

The period of $\sin^2\theta$ is π

Note :

(1) When n is odd then the period of $\sin^n\theta, \cos^n\theta, \csc^n\theta, \sec^n\theta = 2\pi$

(2) When n is even then the period of $\sin^n\theta, \cos^n\theta, \csc^n\theta, \sec^n\theta = \pi$

(3) When n is even/odd then the period of $\tan^n\theta, \cot^n\theta = \pi$

(3) When n is even/odd then the period of $|\sin^n\theta|, |\cos^n\theta|, |\csc^n\theta|, |\sec^n\theta|, |\tan^n\theta|, |\cot^n\theta| = \pi$