

Trigonometric Functions - Class XI

Related Questions with Solutions

Questions

Question: 01

Find the value of $2(\sin^6 x + \cos^6 x) - 3(\sin^4 x + \cos^4 x)$.

- A. 0
- B. $\frac{1}{4}$
- C. 2
- D. -2

Solutions

Solution: 01

$$\begin{aligned}2[1 - 3\sin^2 x \cos^2 x] - 3(1 - 2\sin^2 x \cos^2 x) + 1 &= 0 \\= 2 - 6\sin^2 x \cos^2 x - 3 + 6\sin^2 x \cos^2 x + 1 &= 0 \\= 0\end{aligned}$$

Correct Options

Answer:01

Correct Options: A