Determinants - Class XII

Related Questions with Solutions

Questions

Quetion: 01

The value of θ lying between 0 and $\frac{\pi}{2}$ and satisfying the equation

$$\begin{vmatrix} 1 + \sin^2 \theta & \cos^2 \theta & 4 \sin 4\theta \\ \sin^2 \theta & 1 + \cos^2 \theta & 4 \sin 4\theta \\ \sin^2 \theta & \cos^2 \theta & 1 + 4 \sin 4\theta \end{vmatrix} = 0 \text{ are }$$
 A. $\frac{5\pi}{24}, \frac{3\pi}{24}$ B. $\frac{7\pi}{24}, \frac{5\pi}{24}$ C. $\frac{7\pi}{24}, \frac{11\pi}{24}$ D. $\frac{\pi}{24}, \frac{11\pi}{24}$

Solutions

Solution: 01

Correct Options

Answer:01

Correct Options: C