Determinants - Class XII

Related Questions with Solutions

Questions

Quetion: 01

Let $A = \begin{bmatrix} \cos\theta & \sin\theta \\ -\sin\theta & \cos\theta \end{bmatrix}$, then $|2A|$ is equal to

A. $4\cos 2\theta$
B. 1
C. 2
D. 4

Solutions

Solution: 01

$|A| = \cos^2\theta + \sin^2\theta = 1, |2A| = 2^2 \cdot |A| = 4$

Correct Options

Answer:01
Correct Options: D