

Quiz-26

Q.1 If A is a 4 by 4 matrix and $\det(A)=1/3$, find $\det(3A)$.

- (A) 51 (B) 27 (C) 9 (D) 3

Q.2 If A is a 3 by 3 matrix and $\det(A)=1/3$, find determinant of the inverse of A.

- (A) 3 (B) 6 (C) 9 (D) 12

Q.3 Compute area of the parallelogram whose two adjacent edges are the vectors $a=(0,1,2)$ and $b=(1,1,0)$.

- (A) 3 (B) 4 (C) 5 (D) 6

Q.4 Compute volume of the box whose three adjacent edges are the vectors $a=(4,1,1)$, $b=(1,4,1)$ and $c=(1,1,4)$.

- (A) 3 (B) 4 (C) 5 (D) 6

Q.5 What are the eigenvalues of the matrix $A=\begin{bmatrix} 1 & -1 \\ 2 & 4 \end{bmatrix}$?

- (A) 1,4 (B) 2,3 (C) 1,3 (D) 2,-1