

Quiz-21

Q.1 What is the row space of the matrix $A = \begin{bmatrix} 1 & 2 \\ 2 & 1 \end{bmatrix}$?

- (A) \mathbb{R}^2 (B) a line passing through origin of \mathbb{R}^2 (C) origin of \mathbb{R}^2 (D) None of these

Q.2 What is the row space of the matrix $A = \begin{bmatrix} 1 & 4 \\ 4 & 16 \end{bmatrix}$?

- (A) \mathbb{R}^2 (B) a line passing through origin of \mathbb{R}^2 (C) origin of \mathbb{R}^2 (D) None of these

Q.3 What is the row space of the matrix $A = \begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$?

- (A) \mathbb{R}^3 (B) \mathbb{R}^2 (C) $\{(0,0,0)\}$ (D) None of these

Q.4 What is the left nullspace of the matrix $A = \begin{bmatrix} 1 & 2 \\ 2 & 1 \end{bmatrix}$?

- (A) \mathbb{R}^2 (B) a line passing through origin of \mathbb{R}^2 (C) origin of \mathbb{R}^2 (D) None of these

Q.5 What is the left nullspace of the matrix $A = \begin{bmatrix} 1 & 3 \\ 3 & 6 \end{bmatrix}$?

- (A) \mathbb{R}^2 (B) a line passing through origin of \mathbb{R}^2 (C) origin of \mathbb{R}^2 (D) None of these

Q.6 What is the left nullspace of the matrix $A = \begin{bmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{bmatrix}$?

- (A) \mathbb{R}^3 (B) a plane passing through origin of \mathbb{R}^3
(C) a line passing through origin of \mathbb{R}^3 (D) $\{(0,0,0)\}$