

Quiz-10

Q.1 What is the nullspace of the matrix $A = \begin{bmatrix} 1 & 2 \\ 0 & 0 \end{bmatrix}$?

(A) $x=0$ line (B) $y=0$ line (C) $x=-2y$ line (D) $x=-3y$ line

Q.2 What is the nullspace of the matrix $A = \begin{bmatrix} 1 & 3 \\ 3 & 9 \end{bmatrix}$?

(A) $x=0$ line (B) $y=0$ line (C) $x=-2y$ line (D) $x=-3y$ line

Q.3 What is the nullspace of the matrix $A = \begin{bmatrix} 1 & -1 \\ 0 & 0 \end{bmatrix}$?

(A) $x=0$ line (B) $y=0$ line (C) $x=-2y$ line (D) $x=y$ line

Q.4 What is the nullspace of the matrix $A = \begin{bmatrix} 1 & 0 \\ 0 & 1 \end{bmatrix}$?

(A) \mathbb{R}^2 (B) $x=0$ line (C) $y=0$ line (D) $\{(0,0)\}$

Q.5 What is the column space of the matrix $A = \begin{bmatrix} 0 & 0 \\ 0 & 0 \\ 0 & 0 \end{bmatrix}$?

(A) \mathbb{R}^2 (B) $x=0$ line (C) $y=0$ line (D) $\{(0,0)\}$