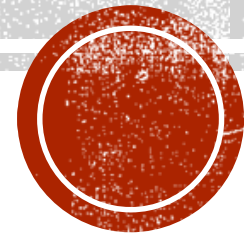


THE RANK OF A MATRIX & LINEAR SYSTEMS

Section 4.6



THEOREM

Let A be $m \times n$. Then

- (1) $\text{Nul}(A)$ is a subspace of \mathbb{R}^n .
- (2) $\text{Col}(A)$ is a subspace of \mathbb{R}^m .
- (3) $\text{Row}(A)$ is a subspace of \mathbb{R}^n .

