

# Ultimate Notes

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**Def.** The **rank** of a matrix  $A$  is the number of pivots.

## Permutation Matrices

- If  $P$  is a Permutation matrix, then  $P^T = P^{-1}$
- Inverse ( $A^{-1}$ ) of  $P_{21}$ ,  $P_{32}$ ,  $P_{31}$  are themselves