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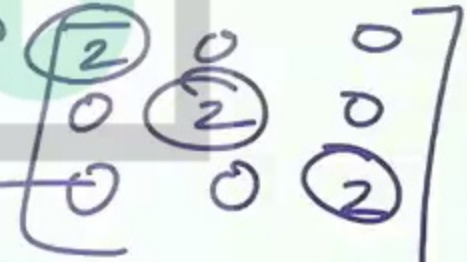
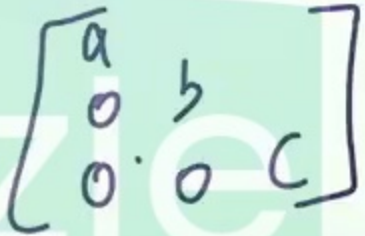
: UNACADEMY-PRIYANKA SHARMA

Types of Matrix

Code : MATHGATE10

- Rectangular and Square Matrix
- Row & Column Matrix
- Diagonal Matrix
- Scalar Matrix
- Unit/Identity Matrix
- Null Matrix
- Upper/Lower Triangular Matrix
- Idempotent Matrix
- Nilpotent Matrix
- Involutary Matrix: $A^2 = I$





Determinant of Matrix

Code :
MATHGATE10

Pen

- Condition for Determinant

- For a square matrix A= ... 'n' is the order of Determinant

- For n=2 $\Rightarrow$ $A=\begin{bmatrix} a_{11} & a_{\cdot} \\ a_{\cdot} & \cdot \end{bmatrix}$

Determinan... $= |A| = (a_{11}a_{22} - a_{12}a_{21})$

Rank of a Matrix

Code :
MATHGATE10

Pen

Maximum number of Li rly independent row (column)

ρ(A)

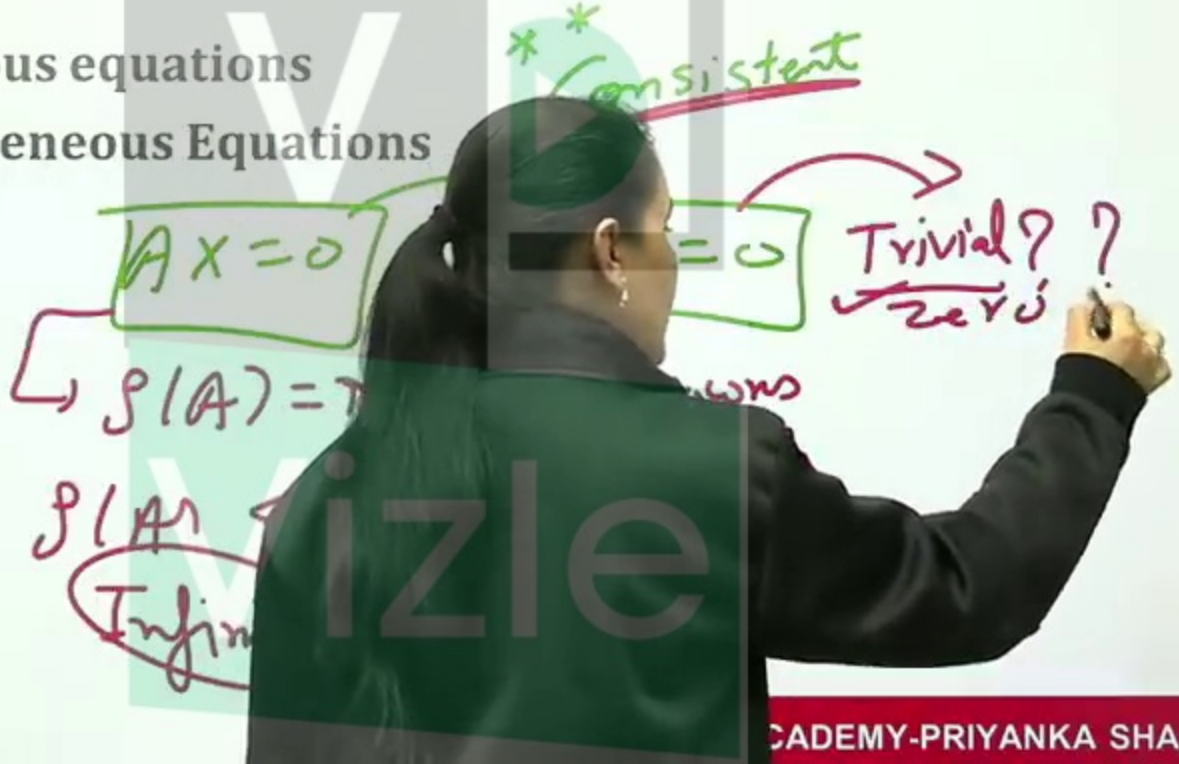
Why rank?

Interchanging s) does not change rank

Linear System of Equations

Code : MATHGATE10

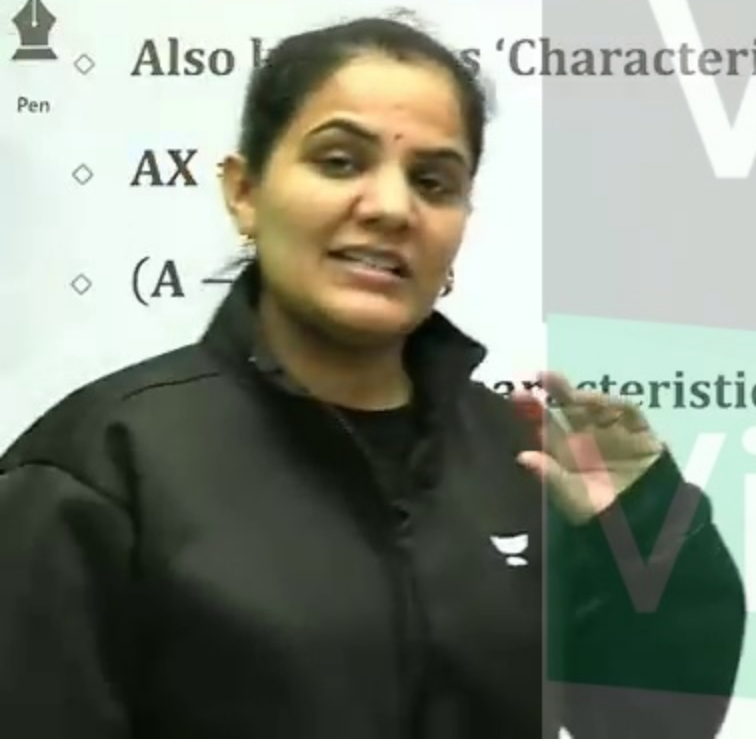
- Homogeneous equations
- Non-Homogeneous Equations



Eigen Value (λ)

Code :
MATHGATE10

- Also known as 'Characteristic Value'
- AX =
- (A −
- Characteristic Equation




Vizle
Code :
Hard Pen
Large tip
Vizle
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