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| Swayam |
| **Introduction to Abstract and Linear Algebra** |
| Prof. Sourav Mukhopadhyay | IIT Kharagpur |

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| VARUN KUMAR  9-20-2025 |

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# **Week 1: Basic Set Theory**

## Lecture 01: - Set Theory

**Topics to be Covered: -**

* Definition of Set,
* Representation of set,
* Empty set,
* universal Set,
* Subset.

# **Week – 02: Group Theory**

# **Week – 03: Rings and Polynomial Rings**

# **Week – 04: Field and Finite Field**

# **Week – 05: Matrices and Determinants**

# **Week – 06: Vector Spaces over Field**

# **Week – 07: Linear Transformation and Their Matrices**

## Lecture 31: - Rank of a Matrix

**Topics to be Covered**: -

* Definition of Rank of a Matrix,
* Maximum Order of Non-Zero Minor, Elementary Row and Column Operations,
* Row reduced Echelon Form, Row Equivalence

Matrix is a rectangular arrangement of elements

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Elementary Row Operations (Same for Columns) to find Rank:-

Ri ⟷ Rj
Ri → Ri + Rj
Ri → k*Ri, where k is any constant (≠0)


## Lecture 32: - Rank of a Matrix (contd….)

**Topics to be Covered**: -

* Elementary Matrices,
* Row and Columns operations is same as multiplying with Elementary Matrices,
* Rank of a matrix is same as rank of the Row Reduced or Columns Reduced Matrix,
* Normal Form.

Ink Drawings
Row Equivalent :- An m x n Matrix B is row equivalent to m x n matrix A iff B = PA for some non-singular matrix of order m
Row Equivalent :- An m x n Matrix B is row equivalent to m x n matrix A iff B = PA for some non-singular matrix of order m

Column Equivalent :- An m x n Matrix B is column equivalent to m x n matrix A iff B = AQ for some non-singular matrix of order n
Column Equivalent :- An m x n Matrix B is column equivalent to m x n matrix A iff B = AQ for some non-singular matrix of order n

Equivalent Matrix :- An m x n Matrix B is equivalent to an m x n matrix iff B = PAQ where P, Q are non-singular matrices.
Equivalent Matrix :- An m x n Matrix B is equivalent to an m x n matrix iff B = PAQ where P, Q are non-singular matrices.
In this case
Rank(A) = Rank(B)
If Rank(A) = r, then we can find non-singular matrices P, Q such that PAQ = ﷐﷐I﷮0﷮0﷮0﷯﷯ , where I is an Identity martix
If Rank(A) = r, then we can find non-singular matrices P, Q such that PAQ = ﷐﷐I﷮0﷮0﷮0﷯﷯ , where I is an Identity martix


Ink Drawings
The increase of non-singular matrix can be calculated by using elementary matrices. Let |A| ≠ 0 and A is of order n. Then A is an equivalent to In. 
The increase of non-singular matrix can be calculated by using elementary matrices. Let |A| ≠ 0 and A is of order n. Then A is an equivalent to In. 
So for suitable elementary matrices E,
En En-1 ......E2 E1 A = In
⇒  En En-1 ......E2 E1 In = A-1
So for suitable elementary matrices E,
En En-1 ......E2 E1 A = In
⇒  En En-1 ......E2 E1 In = A-1
Therefore, if a (finite) sequence of elementary row operation applied successfully on A reduces A to In, the same sequence of operation applied to In with reduce In to A-1.
Therefore, if a (finite) sequence of elementary row operation applied successfully on A reduces A to In, the same sequence of operation applied to In with reduce In to A-1.
This gives us technique to for finding A-1 described below by an example
This gives us technique to for finding A-1 described below by an example


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Find the Rank of A4 x 4 Matrix?


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Important **Fully Reduced Normal Form:**

If a matrix is in **Fully Reduced Normal Form**, then it is in

* Row Reduced Echelon Form
* Column Reduced Echelon From

Such that,

* No zero rows is followed by a non-zero row
* No zero column is followed by a non-zero column
* Leading 1 in each row is the only non-zero element in that row
* Leading 1 in each column is the only non-zero element in that column
* Leading 1 in kth row is the leading 1 in kth column

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Find the Fully Reduced Normal Form of A4 x 5 Matrix?


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Reduce the Matrix A3 x 3 to Fully Reduced Normal Form and find non-singular matrices P, Q such that PAQ is the Fully Reduced Normal Form?


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Reduce the Matrix A3 x 3 to Fully Reduced Normal Form and find non-singular matrices P, Q such that PAQ is the Fully Reduced Normal Form?
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## Lecture 33: - System of Linear Equations

**Topics to be Covered**: -

* augmented matrix, rank of augmented matrix,
* consistency, inconsistencies, no solution, unique solution and infinitely many solution

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## Lecture 34: - Row Rank and Column Rank

**Topics to Be Covered: -**

* Row space and Column space of a matrix, Row Rank, Column Rank

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## Lecture 35: - Eigen Value of a Matrix

**Topics to be Covered**: -

* Characteristic equation,
* Cayley-Hamilton theorem,
* Eigen Value of a Matrix, Product of Eigen Values

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Important **Cayley-Hamilton Theorem**

Every Square Matrix satisfies its own characteristic's equation

A(A) = 0

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From Characteristics equation we can get the Inverse of a matrix
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**Eigen Value of a Matrix**

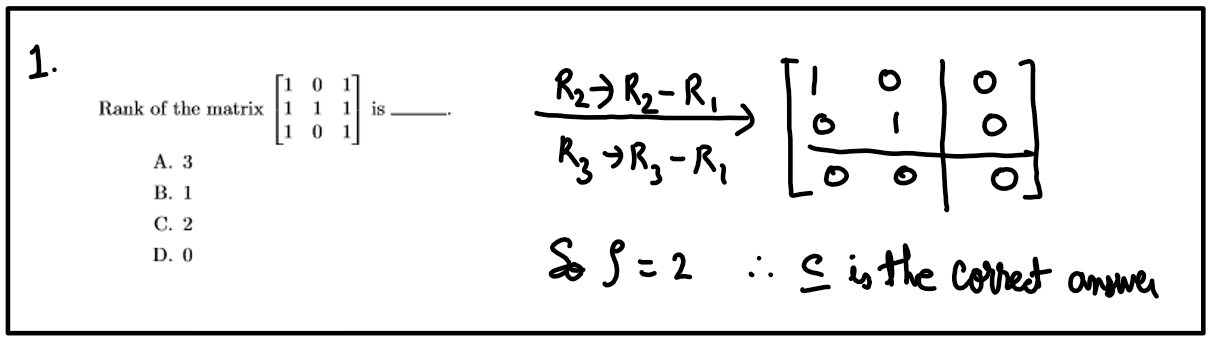
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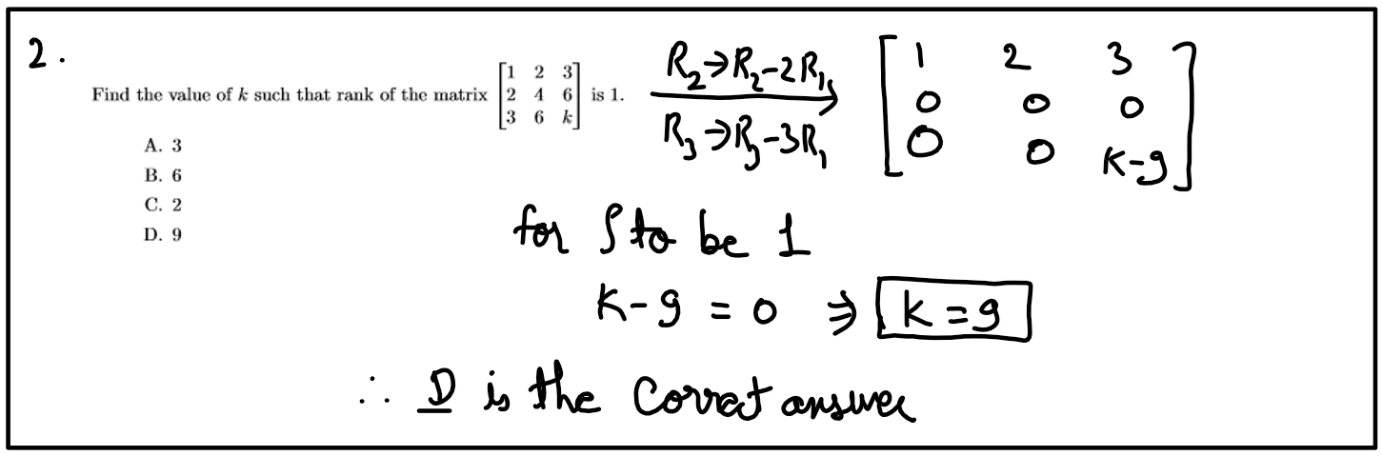

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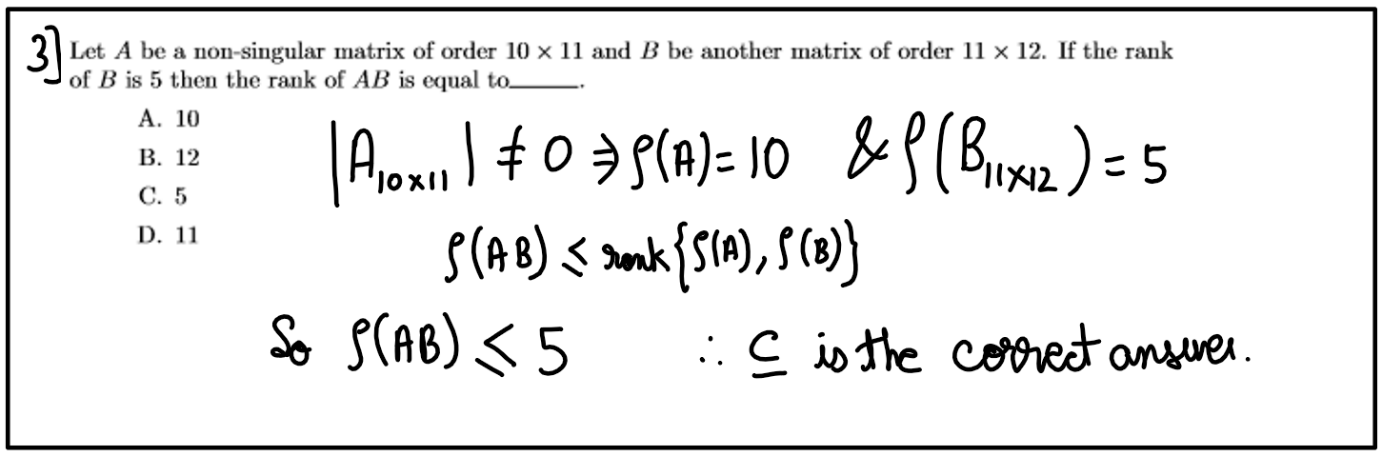

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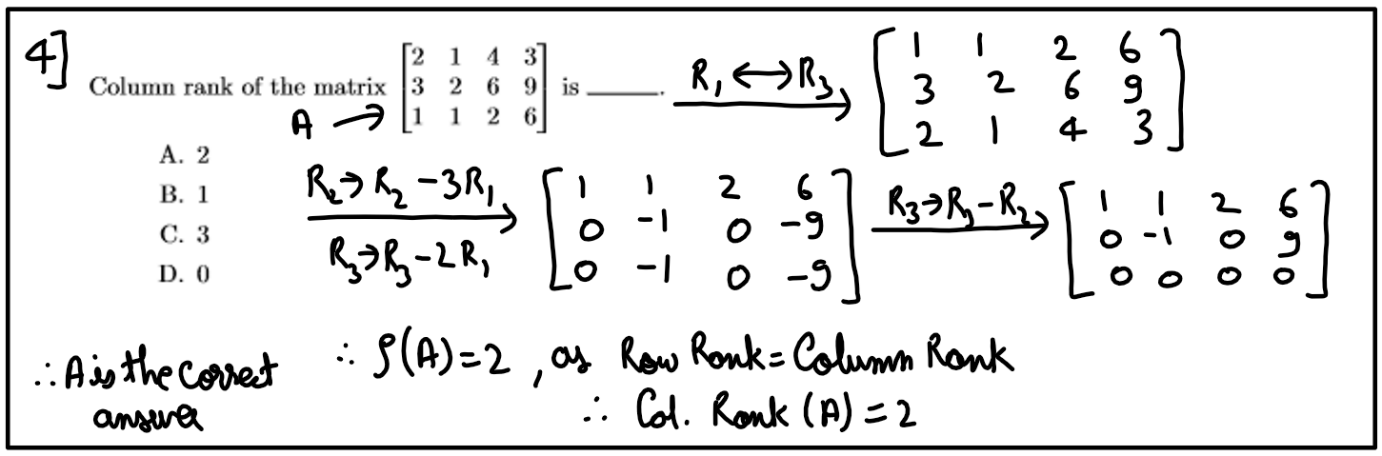

## **Test Questions**

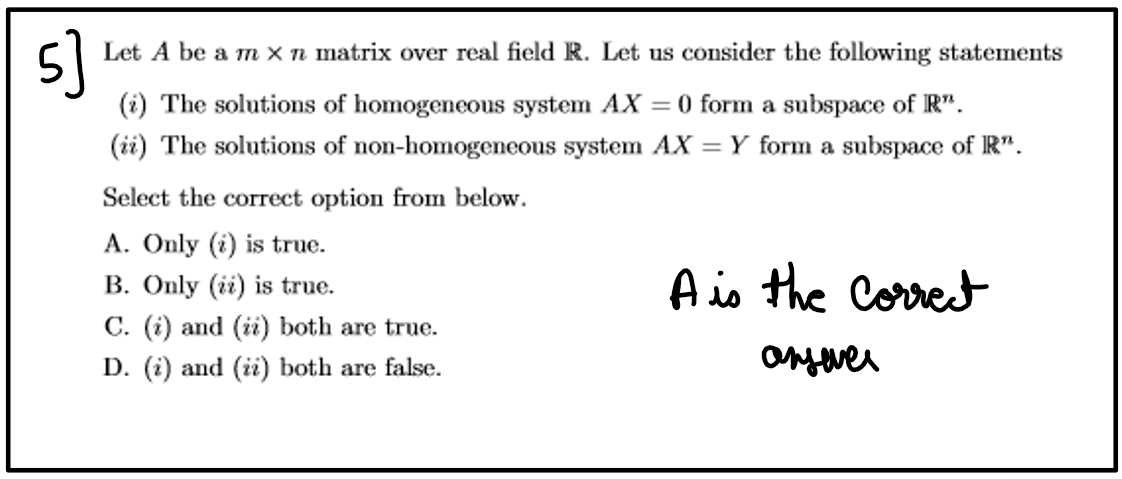
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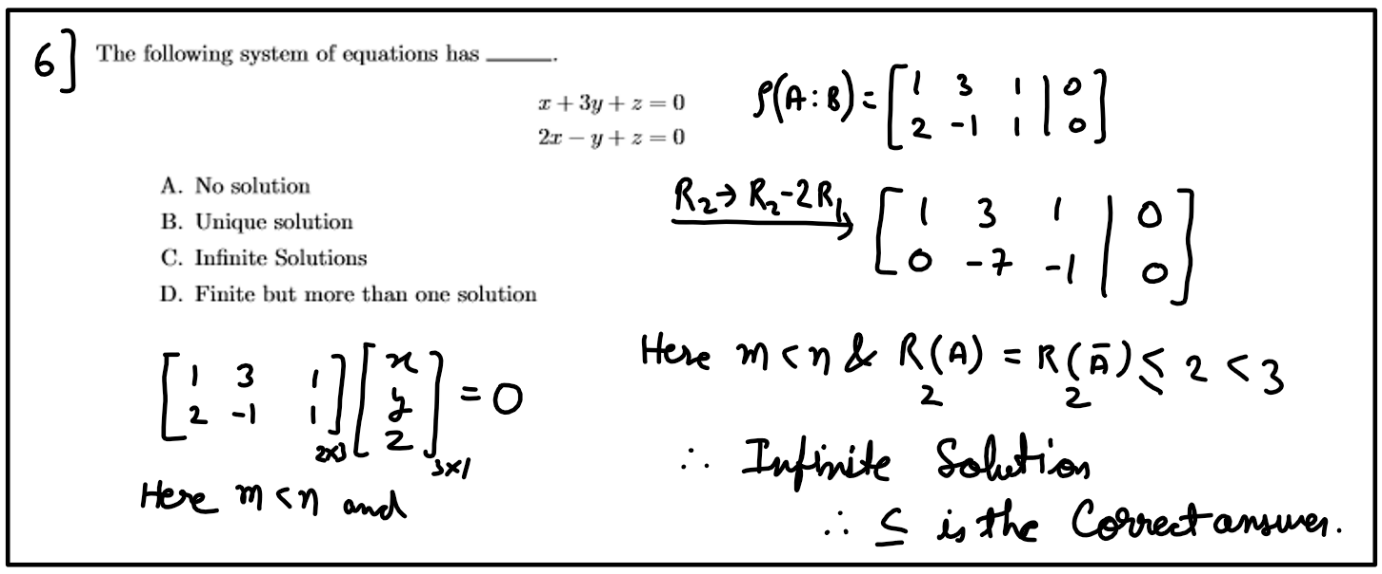


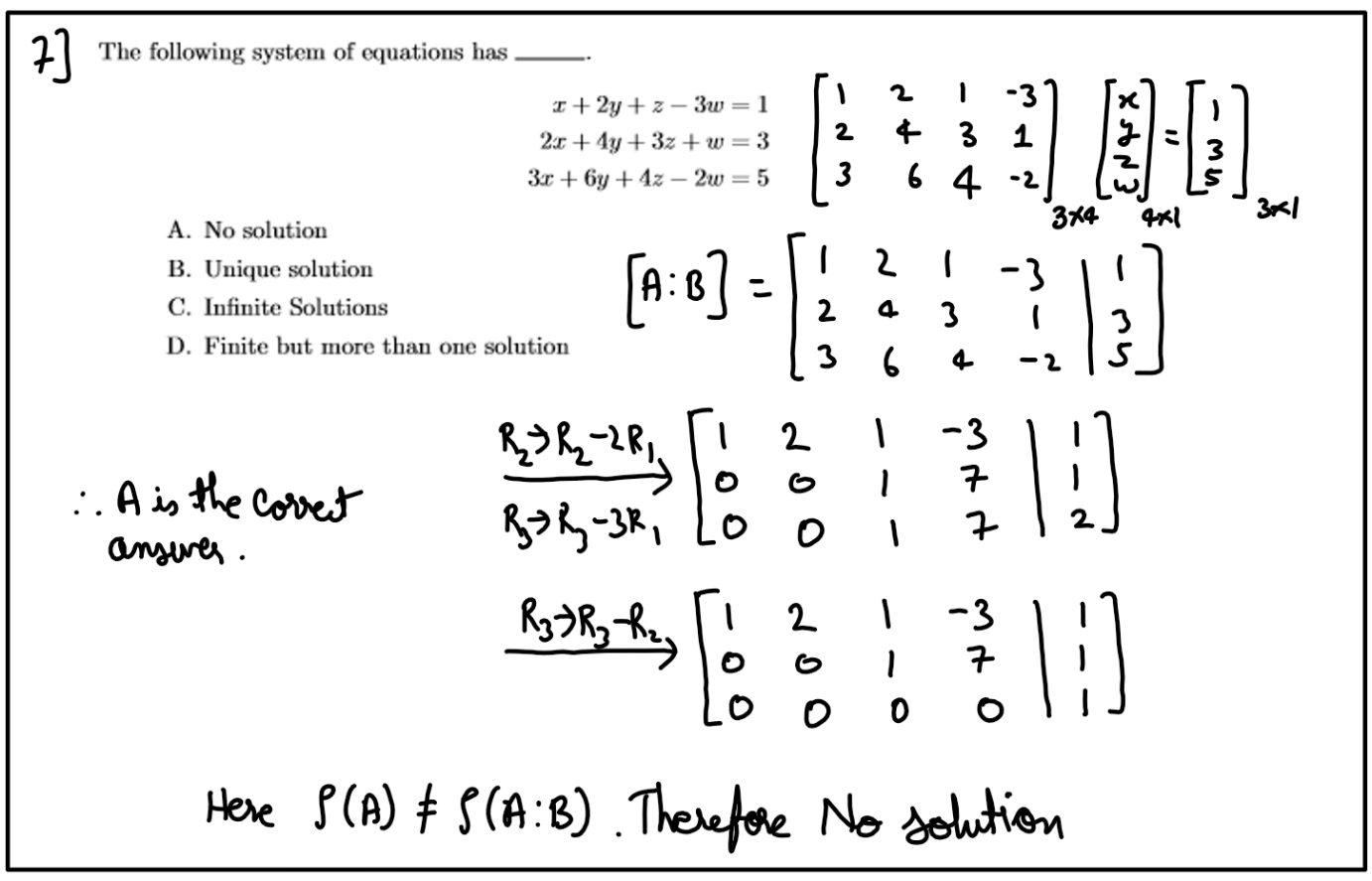




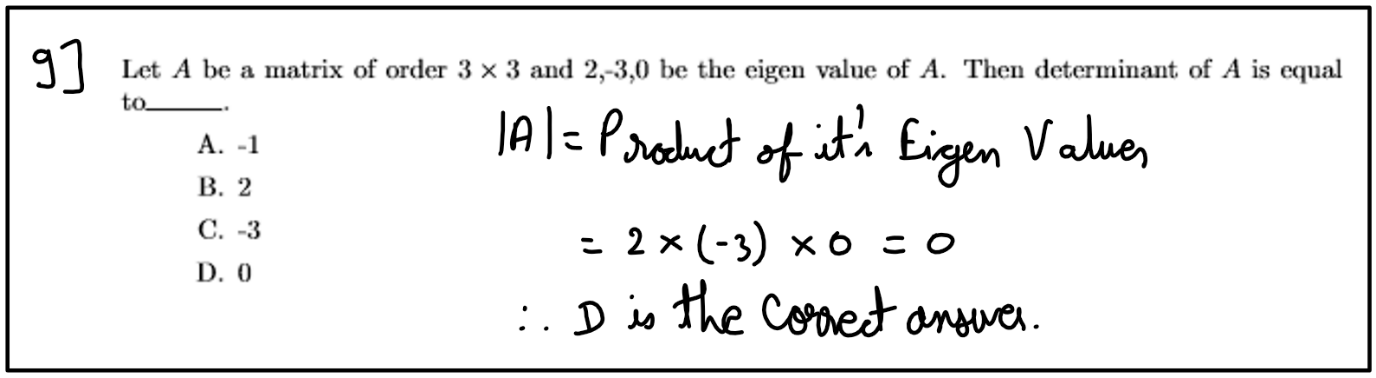


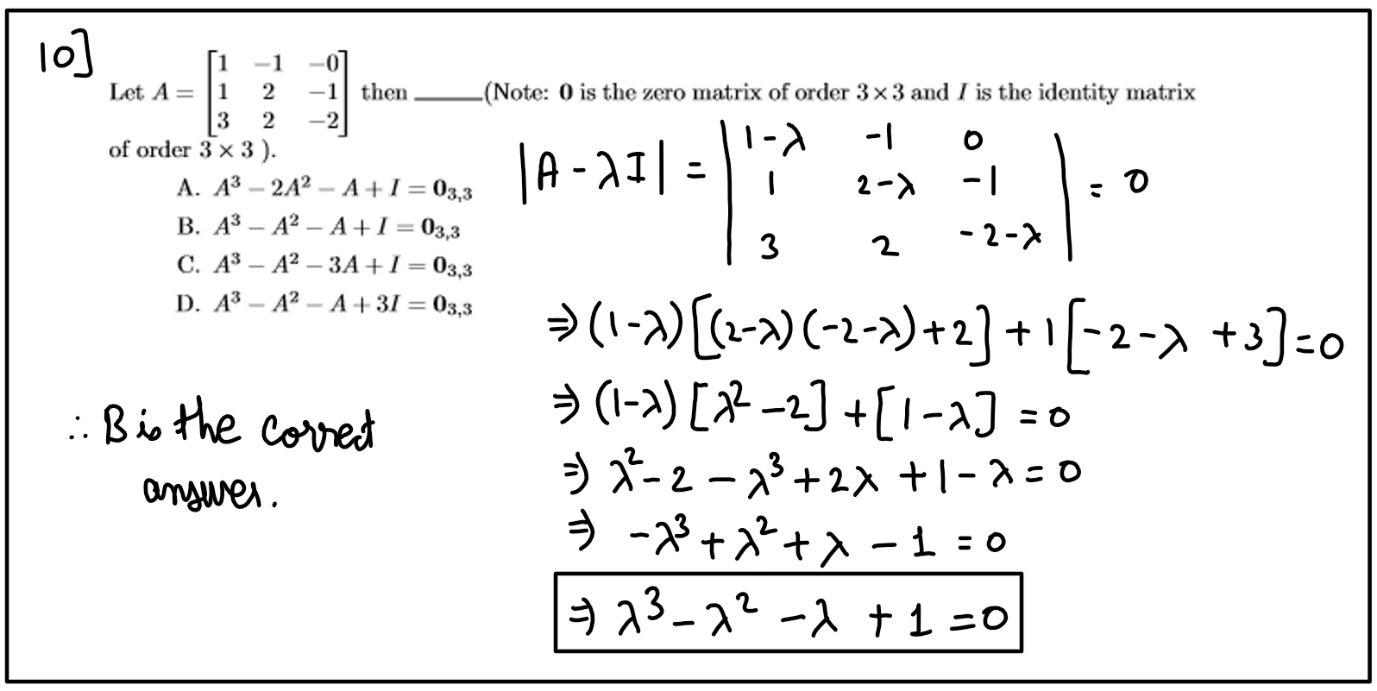




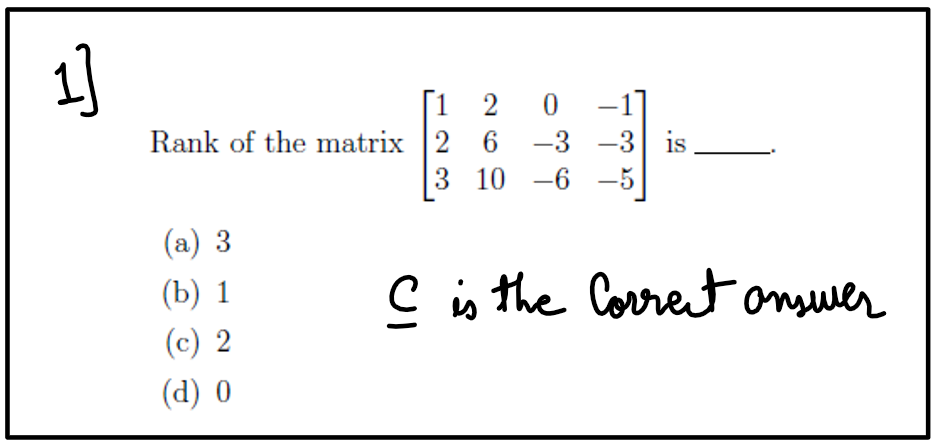


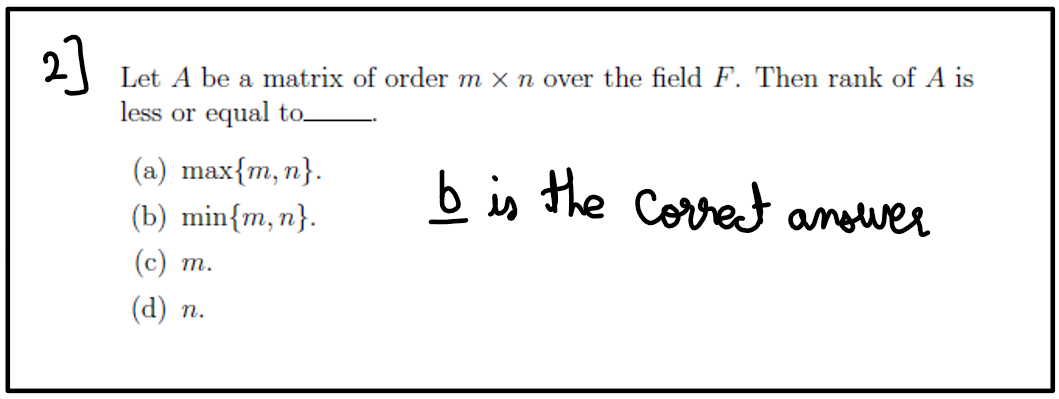
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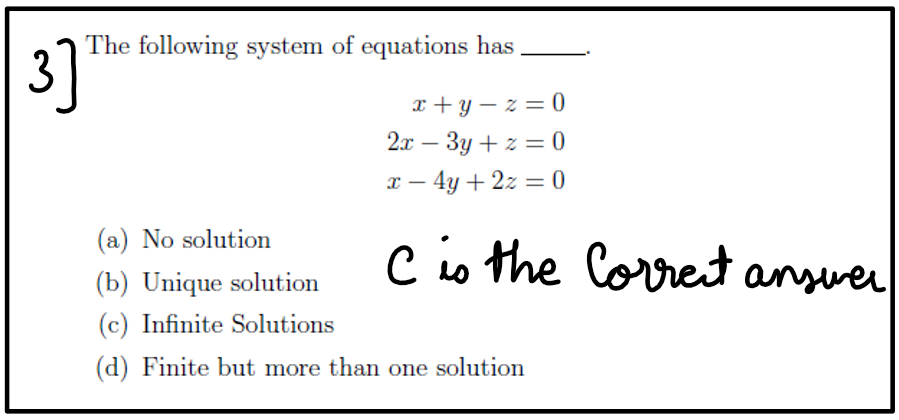



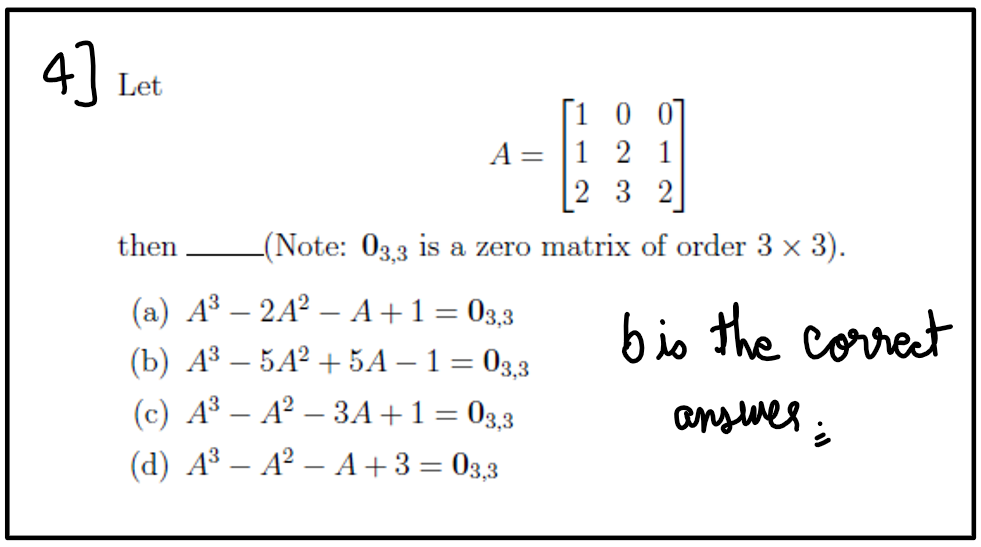


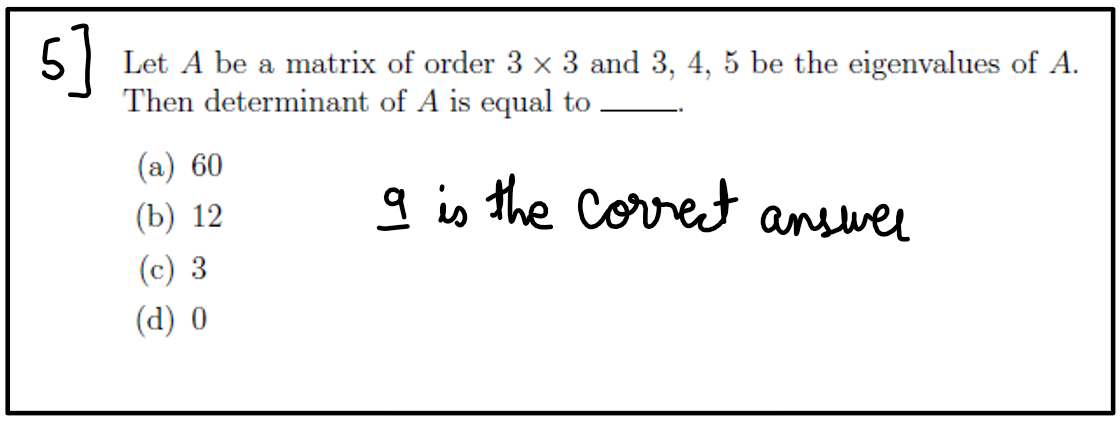
### 2023

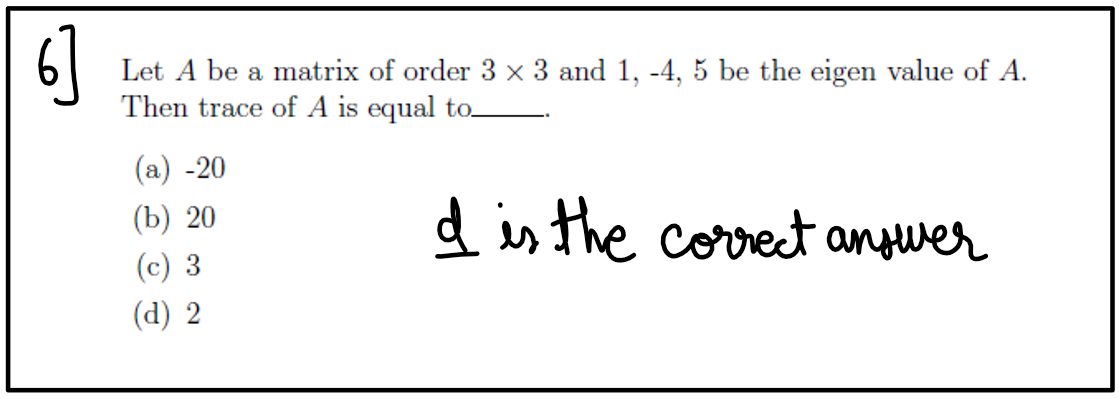


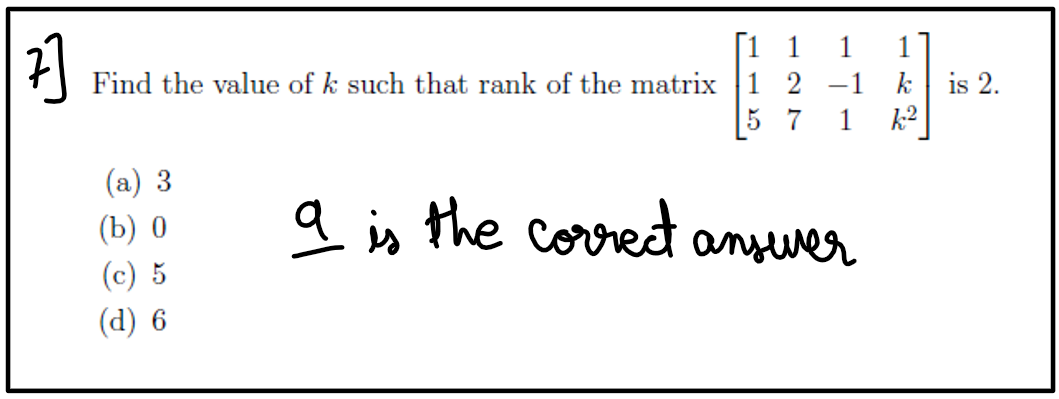


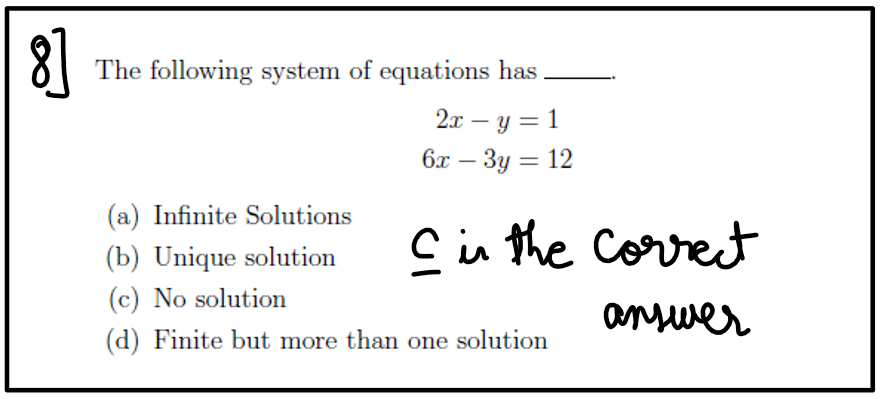


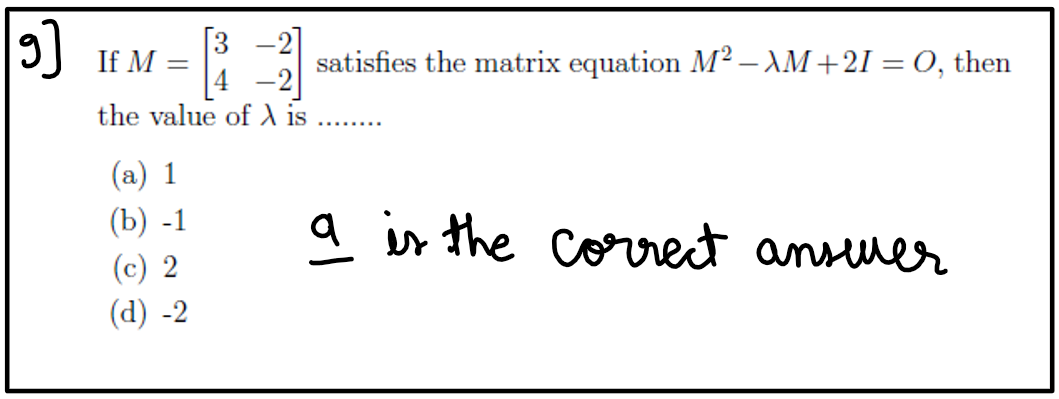


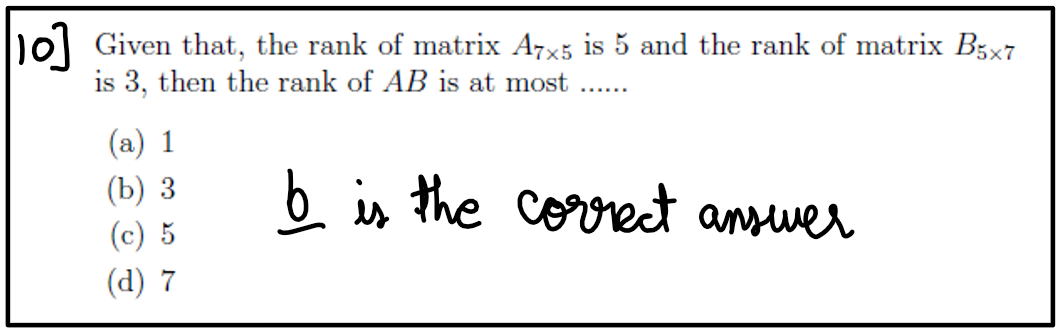












### 2024

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# **Week – 08: Linear Equations**

## Lecture 36: - Eigen Vector

**Topics to be Covered**: -

* Eigen value of a non-singular matrix,
* Eigen Vector,
* Eigen Vector corresponding to unique Eigen Value, independence of eigen vectors

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# **Test Papers of 2025**

## Week – 01:

To be Continued….

## Week – 07:

To be Continued….

# **Important Links**

Current: - <https://onlinecourses.nptel.ac.in/noc25_ma78/preview>

2019: - <https://onlinecourses.nptel.ac.in/noc19_ma23/preview>

2023: - <https://onlinecourses.nptel.ac.in/noc23_ma87/preview>

2024: - <https://onlinecourses.nptel.ac.in/noc24_ma58/preview>