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of matrix Method

*to find Rank Of*

*Matrix | By*

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~~INVERSE OF~~

~~MATRIX IN HINDI~~

*Method to find*

*Rank Of Matrix |*

*By Normal Form*

*(Part 1)*

**Matrices**

**Solution Of**

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**Matrix: Best**  
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**) Shortcut**

Method to Find A  
inverse of a 3x3

Matrix ~~Matrices~~

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~~Types, Rank,~~

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Unit 1 -  
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Chapter 1 Matrix

Algebra S

YNOPSIS 1 M

ATRIX A matrix

is a rectangular  
array of numbers

The numbers may  
be real or

complex It may

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be represented  
as  $A = \begin{bmatrix} 2 & 6 & 6 & 6 & 6 \\ 4 & a & 11 & a & 12 \end{bmatrix}$   
 $a_{1n} \quad a_{21} \quad a$   
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numbers or other  
expressions  
Chapter 1  
Matrices amp  
Determinants

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Suppose a Matrix  
A has 'm' rows  
and 'n' columns  
the order of  
Matrix A is  
denoted by 'm x  
n' read as 'm by  
n' The

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1.1.4 The linear system of equations  $2x + 3y = 5$  and  $3x + 2y = 5$  can be identified with the matrix  $\begin{pmatrix} 2 & 3 \\ 3 & 2 \end{pmatrix} : \begin{pmatrix} 5 \\ 5 \end{pmatrix} \#.$

1.1.1 Special Matrices

Definition 1.1.5

1. A matrix in



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which each entry is zero is called a zero-matrix, denoted by  $0$ . For example,  $0_{2 \times 2} = \begin{pmatrix} 0 & 0 \\ 0 & 0 \end{pmatrix}$  and  $0_{2 \times 3} = \begin{pmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \end{pmatrix}$ .

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The sum of the  
Eigen values of  
a matrix is  
equal to the sum  
of the elements  
of the principal  
diagonal (trace  
of the matrix).

i.e.,  $\lambda_1 + \lambda_2 +$

$\lambda_3 = a_{11} + a_{22} + a_{33}$

(ii) The product

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of the Eigen 1

values of a  
matrix is equal

to the

determinant of  
the matrix.

i.e.,  $\lambda_1 \lambda_2$

$\lambda_3 = |A|$

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