

## LECTURES IN MATH III: LINEAR ALGEBRA

### Lecture 1. The Inverse of a matrix

The inverse of a matrix plays a very significant role in solving certain system of linear equations. There are 3 ways in finding the inverse of a matrix

1. By definition of inverse of a matrix. If  $A$  is an  $n \times n$  matrix, then the inverse of  $A$  is the matrix  $A^{-1}$ , such that

$$AA^{-1} = I_n \quad \text{or} \quad A^{-1}A = I_n.$$

- ✓ If there exists a matrix  $A^{-1}$ , then  $A$  is called nonsingular or invertible.
- ✓ If there exists no such matrix  $A^{-1}$ , then  $A$  is called singular or noninvertible.

1. For any  $2 \times 2$  matrix,

$$A = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$$

its inverse can be determined by the formula

$$A^{-1} = \frac{1}{ad - bc} \begin{bmatrix} d & -b \\ -c & a \end{bmatrix}.$$

3. Gauss-Jordan Reduction for finding the inverse of a matrix.

Let  $A$  be an  $n \times n$  matrix.

a. Adjoin the identity  $n \times n$  matrix  $I_n$  to  $A$  to form the matrix  $[A : I_n]$ .

b. Compute the reduced row echelon form of  $[A : I_n]$

- ✓ If the reduced row echelon form is of type  $[I_n : A^{-1}]$ , then  $A^{-1}$  is the inverse of  $A$ .
- ✓ If the reduced row echelon form is not of the type  $[I_n : A^{-1}]$ , in that the first  $n \times n$  submatrix is not  $I_n$ , then  $A$  has no inverse.

### Properties of Matrix Inverse

Let  $A$  and  $B$  be invertible matrices and  $r$  be a nonzero scalar.

1.  $(A^{-1})^{-1} = A$
2.  $(rA)^{-1} = (1/r) A^{-1}$
3.  $(AB)^{-1} = B^{-1} A^{-1}$
4.  $(A^T)^{-1} = (A^{-1})^T$
5.  $(A^{-T})^{-1} = (A^{-1})^T$

**Note:** Proofs of these properties will be left to students as exercises.

**Example 1:** Find the inverse of  $A$ , if

$$A = \begin{bmatrix} 1 & 1 \\ 3 & 4 \end{bmatrix}.$$

**Solution 1:** By definition of inverse of a matrix, using either  $AA^{-1} = I_n$  or

$$\text{Let } A^{-1} = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$$

# Math 111 Logic And Linear Algebra

**Rosina Ehmann**



## Math 111 Logic And Linear Algebra:

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