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Definition 1.1.1  
(Matrix) A rectangular array of numbers is called a matrix. We shall mostly be concerned with

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matrices having real numbers as entries. The horizontal arrays of a matrix are called its rows and the vertical arrays are called its columns.

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a matrix ?. 2.How to add and subtract a matrix?.

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functions are called the elements or the entries of the matrix. Order of a Matrix: If a matrix has  $m$  rows and  $n$  columns, then its order is written as  $m \times n$ . If a matrix has order  $m \times n$ , then it has  $mn$  elements.

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8.01 CHAPTER 8:  
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DETERMINANTS The  
material in this chapter

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will be covered in your  
Linear Algebra class  
(Math 254 at Mesa).

SECTION 8.1:

MATRICES and

SYSTEMS OF

EQUATIONS PART A:

MATRICES A matrix is  
basically an organized  
box (or “array”) of  
numbers (or other  
expressions).

**CHAPTER 8:**

**MATRICES and**

**DETERMINANTS**

Matrix Algebra 7  $\det A$



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$$= \begin{vmatrix} a_{11} & a_{12} & a_{13} \\ a_{21} & a_{22} & a_{23} \\ a_{n1} & a_{n2} & a_{n3} \end{vmatrix}$$

The determinant has always a real value. If we denote a  $3 \times 3$  determinant, then it has three rows and three columns and its value is given as follows .

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