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## MATHEMATICS FOR ENGINEERS BASIC MATRIX THEORY TUTORIAL 2

PART A: MATRICES A matrix is basically an organized box (or “array”) of numbers (or other expressions). In this chapter, we will typically assume that our matrices contain only numbers. Example Here is a matrix of size 2 3 (“2 by 3”), because it has 2 rows and 3 columns:  $\begin{bmatrix} 1 & 2 & 0 \\ 15 & 2 & 0 \end{bmatrix}$  The matrix consists of 6 entries or elements.

## CHAPTER 8: MATRICES and DETERMINANTS

Matrices, Linear Algebra, Engineering Mathematics, GATE | EduRev Notes chapter (including extra questions, long questions, short questions, mcq) can be found on EduRev, you can check out Computer Science Engineering (CSE) lecture & lessons summary in the same course for Computer Science Engineering (CSE) Syllabus.

## 1. Matrices, Linear Algebra, Engineering Mathematics, GATE ...

Question 5 (\*\*) The  $2 \times 2$  matrix A, is defined as  $2 \begin{bmatrix} a & b \\ 2 & a \end{bmatrix} = -A$  where a and b are constants. The matrix A, maps the point P(2,5) onto the point Q(1,2)– . a) Find the value of a and the value of b. A triangle T1 with an area of 9 square units is transformed by A into the triangle T2. b) Find the area of T2. a = – 1 , b = 6 , area 18=

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1. Row Matrix and Column Matrix: A matrix consisting of a single row is called a . row matrix or a row vector, whereas a matrix having single column is called a . column matrix or a column vector.  
2. Null or Zero Matrix: A matrix in which each element is „0“ is called a Null or Zero matrix. Zero matrices are generally denoted by the symbol O.

## Matrices and Determinants - PBTE

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