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## 1 Further Maths Matrix

Summary A matrix is a rectangular array of numbers arranged in rows and columns. The numbers in a matrix are called the elements of the matrix. The order of a matrix is the

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Summary Notes  
number of rows and columns  
in the matrix. Example 1 [is  
a ] 3 by 2 or matrix as it  
has 3 rows and 2 columns.  
Matrices are often

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**Summary Notes**  
matrix is a rectangular array of numbers arranged in rows and columns. The numbers in a matrix are called the elements of the matrix. The order of a matrix is the number of rows and columns in the matrix.

# File Type PDF Further Mathematics Matrices Example 1 [ista]

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Summary A matrix is a rectangular array of numbers arranged in rows and columns. The numbers in a matrix are called the elements of the matrix. The order of a matrix is the number of rows

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and columns in the matrix.

Example 1 [is a ] 3

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In general a matrix is an  $m \times n$  matrix if it has  $m$  rows and  $n$  columns. This is an important convention to remember. Each square matrix

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( $m = n$ ) also has a determinant. For a  $2 \times 2$  matrix  $\begin{pmatrix} a & b \\ c & d \end{pmatrix}$ , its determinant  $\Delta$  is defined to be  $ad - bc$ . A square matrix is said to be singular if the determinant is equal to zero.

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Matrices are tables of numbers. The numbers are put inside big brackets.

Matrices are given 'orders',

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which basically describe the size of the matrices. The order is the number of rows 'by' the number of columns. So a 2 by 3 matrix has 2 rows and 3 columns. Adding and Subtracting. Adding and subtracting matrices is

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PART A: MATRICES A matrix is basically an organized box (or "array") of numbers (or



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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:  
$$\begin{bmatrix} 10 & 2 & 0 \\ 15 & & \end{bmatrix}$$
 The matrix consists

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## CHAPTER 8: MATRICES and DETERMINANTS

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Multiplying Matrices ( $2 \times 2$  by  
 $2 \times 1$ ) Video Practice  
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determinant of matrix  $A$ , and  
is a scalar (a real number),  
denoted  $\det A$ . If  $ad = bc$ ,  
then  $\frac{1}{ad - bc} = \frac{1}{0}$ , which  
is not defined. In this

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case,  $A^{-1}$  does not exist and the matrix  $A$  is described as singular (non-invertible). If  $A^{-1}$  does exist the matrix  $A$  is described as being non-singular (invertible). For  $A = \begin{pmatrix} a & b \\ c & d \end{pmatrix}$ , we write  $\det A = ad - bc$

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Chapter 9 Matrices and  
Transformations 9 MATRICES  
AND ...

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given in formula sheet:

Volume of sphere:  $\frac{4}{3} \pi R^3$

Surface area of sphere:  $4\pi R^2$

Volume of cone:  $\frac{1}{3} \pi R^2 h$

Curve surface area:  $\pi R H$

Area of triangle:  $\frac{1}{2} ab \sin C$

Sine Rule:  $\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$

Cosine Rule:  $c^2 = a^2 + b^2 - 2ab \cos C$

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Complex Numbers Definitions

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and arithmetical operations  
 $i = \sqrt{-1}$ , so  $\sqrt{-16} = 4i$ ,  $\sqrt{-11}$   
 $= \sqrt{11} i$ , etc.

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In Mathematics, matrices are  
arrays of numbers arranged

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in rows and columns. Types  
of Matrices: Row Matrix:  
Column Matrix: Special  
Matrix: Null Matrix ( $\theta$ ):  
Null Matrix is that matrix,  
that only contains number  $\theta$   
in it. Diagonal Matrix: Also  
known as square matrix, in

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- Enhance individual understanding with discussion points designed for the classroom. -

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