MATRIX BASICS



Exercise 1: State the ORDER of these matrices:

$$\begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix}$$

Exercise 2: State the element, ay, for the following matrices:

$$\begin{pmatrix}
0 & 0 & 1 \\
0 & 0 & 0 \\
0 & 0 & 1
\end{pmatrix}$$
 $Q_{2,2}$

e)
$$\begin{pmatrix} 1 & 2 \\ 2 & 4 \end{pmatrix}$$
 $\alpha_{2,1}$

Exercise 3: identify the following types of matrix from the list below a) square

b) DIAGONAL

C) IDENTITY

d) UPPER TRIANGULAR

e) LOWER TRIANGULAR

f) NULL / ZERO

HINT: there may be more than one answer for each!

$$(ii)$$
 $\begin{pmatrix} 5 & 0 & 0 \\ 0 & 1.1 & 0 \\ 0 & 0 & -7 \end{pmatrix}$

$$\begin{pmatrix}
4 & 1 & 7.9 \\
0 & 2 & 6 \\
0 & 0 & 3
\end{pmatrix}$$