Matrices lesson 1 - What is a matrix, dimension of a matrix

Magic Monk Tutorials

1 State the dimension of the following matrices:

1.1

$$\begin{pmatrix} a & b & c \\ d & e & f \\ g & h & i \end{pmatrix}$$

1.2

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

1.3

$$\begin{pmatrix} 2 & 3 \\ 4 & 5 \\ 6 & 7 \end{pmatrix}$$

1.4

$$\begin{pmatrix} 1 & 3 & 5 & 7 & 9 \\ 2 & 4 & 6 & 8 & 10 \end{pmatrix}$$

1.5

$$\begin{pmatrix} 2 \\ 4 \\ 6 \\ 6 \\ 7 \end{pmatrix}$$

2 Consider the following matrix.

$$\begin{pmatrix} 1 & 7 & 4 & 8 & 2 \\ 3 & 5 & 6 & 5 & 6 \\ 4 & 1 & 2 & 8 & 6 \\ 3 & 0 & 1 & 6 & 9 \end{pmatrix}$$

2.1 State the element in the 2nd row and 4th column.

2.2 State the element in the 3nd row and 5th column.

2.3 State the position of the number 0 in the matrix.

2.4 State the position of the number 9 in the matrix.