Intro to Matrix Notes

Definitions

Matrices: Plural of _____

Order: _____ X _____

Row Matrix:

Column Matrix:

Square Matrix:

Entries:

Equality: A matrix is considered equal if

Addition and subtraction:

- _____ or ____ the corresponding entries

$$\begin{bmatrix} 12 & -7 \\ 8 & 3 \end{bmatrix} - \begin{bmatrix} 10 & 5 \\ 3 & 14 \end{bmatrix} = \begin{bmatrix} 10 & 14 \end{bmatrix}$$

$$\begin{bmatrix} 5 & 3 & -7 \\ -2 & 9 & 4 \end{bmatrix} + \begin{bmatrix} 1 & 6 & 7 \\ 14 & -7 & 11 \end{bmatrix} = \begin{bmatrix} 1 & 6 & 7 \\ 14 & -7 & 11 \end{bmatrix}$$

Scalar Multiplication:

$$-2\begin{bmatrix} 3 & 1 & -4 \\ -6 & 10 & 0.5 \end{bmatrix} = \begin{bmatrix} 3 & 1 & -4 \\ -6 & 10 & 0.5 \end{bmatrix}$$