Add and Subtract Matrices
Multiply by a Matrix by a scalar

Addition: A + B

Ex 1) A =
$$\begin{bmatrix} 6 & 4 \\ -1 & 0 \end{bmatrix}$$

B = $\begin{bmatrix} 3 & 1 \\ -1 & 0 \end{bmatrix}$

**Must be same size or can't add

$$C = \begin{bmatrix} 4 & -2 & 0 \\ 1 & 5 & -1 \end{bmatrix}$$

Subtraction: A - B

Ex 2) A = $\begin{bmatrix} 9 & 2 \\ 4 & 7 \end{bmatrix}$

B = $\begin{bmatrix} 3 & 6 \\ 4 & 7 \end{bmatrix}$

Subtraction: A - B

Ex 2) A = $\begin{bmatrix} 9 & 2 \\ 4 & 7 \end{bmatrix}$

B = $\begin{bmatrix} 3 & 6 \\ 4 & 7 \end{bmatrix}$

Answer

Scalar Multiplication: K[A]

Ex3)
$$A = \begin{bmatrix} 2 & 8 & -3 \\ 5 & -9 & 2 \end{bmatrix}$$
 Find $3A$
 $3A = 3\begin{bmatrix} 2 & 4 & -3 \\ 5 & -9 & 2 \end{bmatrix} = \begin{bmatrix} 3.2 & 3.8 & 3.-3 \\ 3.4 & 3.-9 & 3.2 \end{bmatrix} = \begin{bmatrix} 6 & 34 & -9 \\ 15 & -37 & 6 \end{bmatrix}$

Ex4) $A = \begin{bmatrix} 2 & 1 \\ -1 & 3 \\ 0 & 5 \end{bmatrix}$ Find $\frac{1}{2}A = \begin{bmatrix} 1 & 1/2 \\ -1/2 & 1.5 \\ 0 & 2.5 \end{bmatrix}$

