Addition Of Matrices

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$$\underset{A}{\begin{bmatrix} a_1 & b_1 \\ c_1 & d_1 \end{bmatrix}} + \underset{B}{\begin{bmatrix} a_2 & b_2 \\ c_2 & d_2 \end{bmatrix}} = \underset{A+B}{\begin{bmatrix} a_1 + a_2 & b_1 + b_2 \\ c_1 + c_2 & d_1 + d_2 \end{bmatrix}}$$

Subtraction of Matrices →

$$A - B = A + (-B)$$

If A and B are two matrices of the same order, then we define

$A - B = A + (-B)$.

Consider the two matrices, A and B, of order 2 x 2. Then, the difference is given by:

$$\begin{bmatrix} a_1 & b_1 \\ c_1 & d_1 \end{bmatrix} - \begin{bmatrix} a_2 & b_2 \\ c_2 & d_2 \end{bmatrix} = \begin{bmatrix} a_1 - a_2 & b_1 - b_2 \\ c_1 - c_2 & d_1 - d_2 \end{bmatrix}$$