

Algebra of Matrix:

Properties of Addition/Subtraction of Matrices :

- Let A, B & C are two comparable matrices having order $m \times n$, then

$$A + (B + C) = (A + B) + C \text{ (associative)}$$

- Let A is a matrix of order $m \times n$, then

$$A + O = O + A = A \quad (O = O_{m \times n} \text{ is the additive identity)}$$

$$A + (-A) = O = (-A) + A \quad ((-A) \text{ is the additive inverse of } A)$$