Key Takeaways

Properties of Multiplication

- In general, $AB \neq BA$

  If $AB = BA$, then $A \ \& \ B$ are said to be commute.

  If $AB = -BA$, then $A \ \& \ B$ are said to be anti – commute.

- $AO = OA = O$, whenever defined .

- Let $A = [a_{ij}]_{m \times n}$. Then $AI_n = A \ \& \ I_m A = A$,

  where $I_m \ \& \ I_n$ are identity matrices of order $m \ \& \ n$ respectively.

- If k is a scalar and product of matrices $A \ \& \ B$ is defined, then

  $(kA)B = A(kB) = k(AB)$

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