Power of a Square Matrix

If A is a square matrix of order n ,

- $AI_n = I_nA = A$, I_n is called the multiplicative identity.
- $A^2 = A.A$
- $A^n = A \cdot A \cdots A$ (up to n times) , $n \in N$
- $A^m A^n = A^{m+n}$, $m , n \in N$

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