



2. Find the sum of the series  $1 + 3 + 9 + 27 + \dots$  + to 10 terms.
3. If  $A = \begin{bmatrix} 1 & 3 \\ 5 & 4 \end{bmatrix}$ ,  $B = \begin{bmatrix} 2 & 1 \\ 5 & 0 \end{bmatrix}$  find AB and BA. Is  $AB = BA$
4.  $\int 4X^3 + 6X^2 - 11X + 56 dx$

**Q. 5. Case study**

**(15)**

$$\text{Matrix A} = \begin{bmatrix} 1 & 0 & -4 \\ -2 & 2 & 5 \\ 3 & -1 & 2 \end{bmatrix}$$

**Question**

- 1) Find the Minors
  - 2) Write adjoint
  - 3) Estimate the Inverse of the given Matrix .
-