

$$\sum_{i=1}^n c = cn$$

For Example

$$\sum_{i=1}^{10} 3 = 10 * 3$$

$$\sum_{i=1}^n i = \frac{n(n+1)}{2}$$

$$\sum_{i=1}^n i^2 = \frac{n(n+1)(2n+1)}{6}$$

$$\sum_{i=1}^n i^3 = \left[\frac{n(n+1)}{2} \right]^2 = \frac{n^2(n+1)^2}{4}$$

$$\sum_{i=1}^n 2i = \frac{n(n+1)}{2}$$

$$\sum_{i=1}^n 2i-1 = \frac{(n+1)^2}{4}$$