

- Sum of two consecutive triangular numbers
- $P_n = n.(n + 1).(n + 2).(n + 3)$  is divisible by 4!
- The squares of odd numbers are proportional to 8 minus 1.
- Determine the expression of Tetrahedral numbers

### Definition:

The sum of the  $\Delta_n$ :  $\Theta_n = \sum_{k=1}^n \Delta_k$ .

- Sum of  $n$  first cubes.