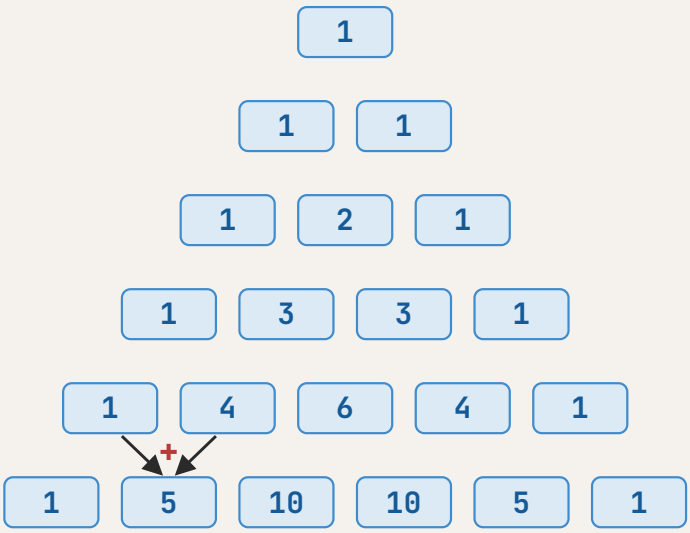
Prodotti notevoli

Quadrato di binomio	$(A+B)^2 = A^2 + B^2 + 2AB$
Somma per differenza	$(A+B)(A-B) = A^2 - B^2$
Cubo di binomio	$(A+B)^3 = A^3 + 3A^2B + 3AB^2 + B^3$
Quadrato di trinomio	$(A+B+C)^2 = A^2 + B^2 + C^2 + 2AB + 2AC + 2BC$

Triangolo di Tartaglia

$$(A+B)^n = \sum_{k=0}^{n} \binom{n}{k} A^{n-k} B^k$$



ESEMPIO

$$\begin{aligned}(2x-y)^4 &= 1\cdot(2x)^4\cdot(-y)^0 + 4\cdot(2x)^3\cdot(-y)^1 + 6\cdot(2x)^2\cdot(-y)^2 \\ &\quad +4\cdot(2x)^1\cdot(-y)^3 + 1\cdot(2x)^0\cdot(-y)^4 \\ &= 16x^4 - 32x^3y + 24x^2y^2 - 8xy^3 + y^4\end{aligned}$$