

Summation Formula Examples

1	$\sum_{i=1}^{10} i = 1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 + 9 + 10$
2	$\sum_{i=1}^6 k = k + k + k + k + k + k = 6k$
3	$\sum_{i=1}^n k = k + k + k + \cdots + k = nk$
4	$\sum_{i=1}^5 x_i = x_1 + x_2 + x_3 + x_4 + x_5$
5	$\sum_{i=1}^n p_i = p_1 + p_2 + p_3 + \cdots + p_n$
6	$\sum_{i=0}^4 x^i = 1 + x^1 + x^2 + x^3 + x^4$
7	$\sum_{k=1}^n k^2 = 1^2 + 2^2 + 3^2 + \cdots + n^2$
8	$\sum_{i=1}^3 (x_i - a)^i = (x_1 - a) + (x_2 - a)^2 + (x_2 - a)^3$