1. ∑500 with i = 1 (2i-1)

∑500 with i = 1 2i - ∑500 with i = 1 1

2∑500 with i = 1 I - 500

2((500 \*501)/2) – 500 = 250,000

1. ∑10 with i = 1 (2i)

∑10 with i = 1 2^i - 2^0

(2^11 -1) -1 = 2048-2 = 2,046

1. ∑(n+1) with i = 3 1 = (n+1) -3 + 1 = n-1
2. ∑(n+1) with i = 3 i

∑(n+1) with i = 1 i – ( 1 + 2 ) = ((n+1)(n+2))/2 -3

(n^2 + 3n + 2 -6)/2 = (n^2 + 3n -4)/2

1. ∑(n-1) with i = 0 i(i+1)

∑(n-1) with i = 0 i^2 + ∑(n-1) with i = 0 i

(n(n+1)(2n+1))/6 + ((n-1)n)/2

(n(n-1)(n+1))/3

1. ∑n with i = 1 3^i+1 =

∑n+1 with i = 0 3^I – 3^0 – 3^1