Arithmetic sequences:

Explicit formula: $t_n = t_1 + (n-1)d$

Sum of n terms: $S_n = \frac{n}{2}(a_1 + a_n)$

Geometric sequences:

Explicit formula: $t_n = t_1(r)^{n-1}$

Sum of n terms: $S_n = \frac{t_1(1-r^n)}{1-r}$

Sum of infinity terms: $S_\infty = \frac{t_1}{1-r}$

Sigma Notation: