Arithmetic sequence/Series

Recursive formula:	$a_n = a_{n-1} + d$
Explicit formula:	$a_n = a_1 + (n-1)d$

Sum:

$$S_n = (a_1 + a_n) \cdot \frac{n}{2}$$

Geometric sequence/Series

Recursive formula:	$a_n = a_{n-1} \cdot r$
Explicit formula:	$a_n = a_1 \cdot r^{n-1}$

Sum:

$$S_n = \frac{a_1 - a_1 r^n}{1 - r}$$

Infinite sum: if $ r < 1$ then S_{∞}	= -	$\frac{a_1}{1-r}$
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