

Unit 10: Series and Sequence Formulas

$$a_n = a + d(n-1)$$

$$S_n = \frac{n}{2}[2a + d(n-1)]$$

$$S_n = a \left(\frac{1-r^n}{1-r} \right)$$

$$a_n = a(r)^{n-1}$$

$$S_n = n \left(\frac{a+a_n}{2} \right)$$

$$S = \frac{a}{1-r}$$

$$\binom{n}{r} = \frac{n!}{r!(n-r)!}$$

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