

AFM – Sequences and Series Formulas

| Arithmetic Formulas | Geometric Formulas |
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| 1.) $a_n = a_1 + d \cdot (n - 1)$ | 4.) $a_n = a_1 \cdot (r)^{n-1}$ |
| 2.) $S_n = \frac{n}{2}(a_1 + a_n)$ | 5.) $S_n = \frac{a_1(1 - r^n)}{(1 - r)}$ |
| 3.) $S_n = \frac{n}{2}[2a_1 + d \cdot (n - 1)]$ | 6.) $S = \frac{a_1}{(1 - r)}$ |