- 1. Consider the sequence 7, 13, 19, 25,...,121.
- a) Is the sequence arithmetic, geometric, or neither?
- b) Write a closed formula for a_n assuming $a_0 = 7$.
- c) How many terms are in the sequence?
- d) Write the sum of the sequence using Σ notation and use an appropriate formula to compute the sum exactly.
- 2. Consider the sequence 75, 15, 3, $\frac{3}{5}$, ..., $\frac{3}{78125}$.
- a) Is the sequence arithmetic, geometric, or neither?
- b) Write a closed formula for a_n assuming $a_0 = 75$.
- c) How many terms are in the sequence?
- d) Write the sum of the sequence using Σ notation and use an appropriate formula to compute the sum exactly.

3. a)	Consider the sequence 2, 6, 18, 54,, 354294. Is the sequence arithmetic, geometric, or neither?
b)	Write a closed formula for a_n assuming $a_0 = 2$.
c)	How many terms are in the sequence?
d)	Write the sum of the sequence using Σ notation and use an appropriate formula to compute the sum exactly.
4. a)	Consider the sequence 3, 7, 11, 15,, $4t+3$. Is the sequence arithmetic, geometric, or neither?
b)	Write a closed formula for a_n assuming $a_0 = 3$.
c)	How many terms are in the sequence?
d)	Write the sum of the sequence using Σ notation and use an appropriate formula to compute the sum exactly.