## Chapter 12 Objectives:

I can:

- Find the nth term of a sequence using recursive and explicit formulas
- Write recursive and explicit formulas
- Apply the knowledge of sequences to real life situations
- Write series in sigma (summation) notation
- Evaluate the partial sum of a series from sigma notation
- Apply the knowledge of series to real life situations
- Identify arithmetic sequences vs. other sequences
- Finding the nth term of arithmetic sequences
- Finding sums of arithmetic sequences
- Apply the knowledge of arithmetic sequences/series to real life situations
- Identify geometric sequences vs. other sequences
- Finding the nth term of geometric sequences
- Finding sums of geometric sequences
- Apply the knowledge of geometric sequences/series to real life situations
- Find sums of infinite geometric series
- Use math induction to prove statements