# Hibernia College Section 7 Sequences and Series

1. Sequences
   1. Recurrence Relations
   2. The Fibonacci Sequence
2. Induction
   1. The principle by induction
   2. Proof By Induction
3. Series and the Sigma notation
   1. Expressing Sums in Sigma notation
   2. Some Standard Series and their Sums
   3. Rules of Arithmetic for Sums

Question 5

A sequence is defined by the formula

***un = 5n-3 for n≥1***

Write the following sums in the Σ notation and evaluate them

* 12 + 22 + 32 + …+ 402 = ?
* 2 + 5 + 10 + … + 1601 = ?
* 2+8+18+… +3200 = ?