

Eid 2016 HL Math Assignment – Sequences & Series

Note: All assignments are from the IBID/Cirrito Textbook

Topic 1.1 (Cirrito Chapter 8)

Arithmetic sequences and series; sum of finite arithmetic series; geometric sequences and series; sum of finite and infinite geometric series. Sigma notation. Applications.

Arithmetic Sequences:	Cirrito 8.1.1 → pg 244, do some from Q1-14 (but make sure you can do Q8,10-13)
Sums of Arithmetic Sequences (Arithmetic Series):	Cirrito 8.1.2 → pg 248, do some from Q1-6 (but make sure you can do Q5,6)
Sigma Notation:	Cirrito 8.1.3 → pg 250-1, do some from Q1-14 (but make sure you can do Q3,6,7,12-14)
Geometric Sequences:	Cirrito 8.2.1 → pg 256, do some from Q1-11 (but make sure you can do Q3,4,5,8,11)
Sums of Geometric Sequences (Geometric Series):	Cirrito 8.2.2 → pg 260, do some from Q1-16 (but make sure you can do Q4ad,5,9,12,14)
COMBO PROBLEMS:	Cirrito 8.2.3 → pg 262, do Q2,3,4,7
Convergent Series (Infinite geometric Series):	Cirrito 8.2.4 → pg 264-5, Q1,3,4,5,9 (Q10,11 are important as you WILL see these again in our Calculus Option)
Applications: Compound Interest & Superannuation	Cirrito 8.3 → pg 271, do some from Q1-11

Video Resources → I like the videos from mathispower4u and here is a link to an index of videos for a typical Algebra II course. On this index, go down to the last two pages and you will find a lot of videos listed that deal with the assorted topics you are being asked to learn. The videos you are looking for are titled under SEQUENCES AND SERIES, then subtitles SEQUENCES, then SERIES, then INFINITE SERIES.

<https://dl.dropboxusercontent.com/u/28928849/Webpages/Algebra2VideoLibrary.pdf>