

## CH6 SEQUENCES AND SERIES

- You need to write notes and do homework for each lesson from the MATHEMATICS 11 textbook;
- Also, read the key concepts at the end of each section.

### 6.1 Sequences Vocabulary

- P. 428
- Define: sequence, term
- Write ex 1a, 2b, 3

*Knowledge* p. 433 #1aef, 2adi, 3adgj, 4be

### 6.2 Arithmetic Sequences

- P. 436
- Define the arithmetic sequence, its general form (middle of p.438) and the  $n^{\text{th}}$  term
- Write ex 2ab,3,4,5

*Knowledge* p. 441 # 1af, 2a, 3c, 4adfi, 5dfh, 6aefj, 7be, 8b,9

*Applications* # 16, 20, 23, 33,36,37ce, 38a

p. 434 # 8; p. 462 # 10

### 6.3 Geometric Sequences

- P. 447
- Define the geometric sequence, its general form and the  $n^{\text{th}}$  term
- Write ex. 2ab,3,4,5

*Knowledge* p. 452 #2cf,3ae,4ad,5cf,6ce,7ab

*Applications* p. 452 #9,10,13,14,15,18,22a,26b,28b; p. 462 # 11

### 6.4. Recursive Sequences

- P. 457
- Define recursive sequence
- Do ex 1, 2

*Knowledge* p. 461 # 1acf, 2ac, 3ab, 4b, 5b,13a

### 6.5 Arithmetic Series

- Define series, then arithmetic series
- Write the development of the formula (middle p. 466)
- Ex 1b, 2

*Knowledge* p. 469 # 1a,2c,3cg,4ac

*Applications* #6,11,17,19,23,25,26

### 6.6 Geometric Series

- Define geometric series
- Formula development (middle p. 473)
- Ex 1,2,3

*Knowledge* p. 476 #1dh,2f,3c,5

*Applications* # 10,12b,17