

INTRODUCTION TO ALGEBRA

Form 1 Regular Course
Vol 1B

Part 6 – Sequence

1. (a) Fibonacci Sequence
(b) Arithmetic sequence
(c) Geometric sequence
(d) Triangular number sequence
(e) Square number sequence
2. C
3. B

Part 7A – General Term (A)

1. (a) 1st term = $4(1) + 3 = 7$, 2nd term = $4(2) + 3 = 11$
 3rd term = $4(3) + 3 = 15$, 4th term = $4(4) + 3 = 19$
- (b) 1st term = $(-1)^2 = 1$, 2nd term = $(-2)^2 = 4$
 3rd term = $(-3)^2 = 9$, 4th term = $(-4)^2 = 16$
- (c) 1st term = $1^2 + 1 = 2$, 2nd term = $2^2 + 2 = 6$
 3rd term = $3^2 + 3 = 12$, 4th term = $4^2 + 4 = 20$
- (d) 1st term = $\frac{1}{2(1)} = \frac{1}{2}$, 2nd term = $\frac{1}{2(2)} = \frac{1}{4}$
 3rd term = $\frac{1}{2(3)} = \frac{1}{6}$, 4th term = $\frac{1}{2(4)} = \frac{1}{8}$
2. 6th term = $-\frac{3}{12} = -\frac{1}{4}$
3. (a) $5n$
 (b) $1 + 4n$
 (c) $16 - 3n$
 (d) $9 - 4n$
 (e) $-0.5n$