

# Year 11 – HL2 - Sequences

Q1 Find the  $n$ th term for these sequences.

a 1, 4, 7, 10, ...

b -1, 3, 7, 11, ...

c 3, 6, 11, 18, ...

d 0, 7, 26, 63, 124, ...

e 3, 12, 27, 48, ...

f 2, 16, 54, 128, 250, ...

g 10, 100, 1000, 10 000, ...

h 3, 9, 27, 81, ...

Q2 Write down the first four terms of these sequences.

a  $u_n = 2n - 3$

b  $u_n = n^3 - n^2$

c  $u_n = \frac{n^2}{2n + 3}$