SEQUENCES

NTH-TERM FORMULAE

Ref: G291.2R1

A1 Write down the first four terms of the sequence given by the formula: $6n$	**A2** Write down the first three terms of the sequence given by the formula: $3n+2$	**A3** Write down the 10^{th} term of the sequence given by the formula: $20-4n$	**A4** Write down the 51^{st} term of the sequence given by the formula: $\frac{n+5}{2}$
B1 Write down the first five terms of the sequence given by the formula: n^2	**B2** Write down the first four terms of the sequence given by the formula: n^2-3n	**B3** Write down the 15^{th} term of the sequence given by the formula: $n(n+1)$	**B4** Write down the 99^{th} term of the sequence given by the formula: $(n+2)(n-3)$
C1 Write down the first four terms of the sequence given by the formula: 3^n	**C2** Write down the first five terms of the sequence given by the formula: 2^n-1	**C3** Write down the 10^{th} term of the sequence given by the formula: 4×2^n	**C4** Write down the 100^{th} term of the sequence given by the formula: $(-1)^n$
D1 Write down the first six terms of the sequence given by the formula: n^3	**D2** Write down the first four terms of the sequence given by the formula: $\frac{n-1}{3}$	**D3** Write down the 11^{th} term of the sequence given by the formula: $(n+1)(n-3)(n+5)$	**D4** Write down the 19^{th} term of the sequence given by the formula: $\frac{n^2+5}{n-4}$

SEQUENCES

NTH-TERM FORMULAE

Ref: G291.2R1

A1 Write down the first four terms of the sequence given by the formula: $6n$ 6, 12, 18, 24	**A2** Write down the first three terms of the sequence given by the formula: $3n+2$ 5, 8, 11	**A3** Write down the 10th term of the sequence given by the formula: $20-4n$ $20-4(10)=-20$	**A4** Write down the 51st term of the sequence given by the formula: $\frac{n+5}{2} = \frac{(51)+5}{2} = 28$
B1 Write down the first five terms of the sequence given by the formula: n^2 1, 4, 9, 16, 25	**B2** Write down the first four terms of the sequence given by the formula: n^2-3n −2, −2, 0, 4	**B3** Write down the 15th term of the sequence given by the formula: $n(n+1)$ $15(15+1)=240$	**B4** Write down the 99th term of the sequence given by the formula: $(n+2)(n-3)$ $(99+2)(99-3)=9696$
C1 Write down the first four terms of the sequence given by the formula: 3^n 3, 9, 27, 81	**C2** Write down the first five terms of the sequence given by the formula: 2^n-1 1, 3, 7, 15, 31	**C3** Write down the 10th term of the sequence given by the formula: 4×2^n $4\times 2^{(10)}=4096$	**C4** Write down the 100th term of the sequence given by the formula: $(-1)^n$ $(-1)^{100}=1$
D1 Write down the first six terms of the sequence given by the formula: n^3 1, 8, 27, 64, 125, 216	**D2** Write down the first four terms of the sequence given by the formula: $\frac{n-1}{3} \longrightarrow 0, \frac{1}{3}, \frac{2}{3}, 1$	**D3** Write down the 11th term of the sequence given by the formula: $(n+1)(n-3)(n+5)$ $(11+1)(11-3)(11+5)=1536$	**D4** Write down the 19th term of the sequence given by the formula: $\frac{n^2+5}{n-4} = \frac{(19)^2+5}{(19)-4} = 24.4$