



SEQUENCES

ARITHMETIC SEQUENCES: BASICS

Ref: G291. **3R1**

A1 Find the next two terms 2, 5, 8, 11, ...	A2 Find the next two terms 11, 8, 5, 2, ...	A3 Find the next two terms 9, 13, 17, 21, ...	A4 Find the next two terms 23, 14, 5, -4, ...
B1 Find the 20 th term 11, 14, 17, 20, ...	B2 Find the 30 th term 5, 13, 21, 29, ...	B3 Find the 45 th term 2, 7, 12, 17, ...	B4 Find the 51 st term 30, 23, 16, 9, ...
C1 Find the first three terms $nth \text{ term} = 3n + 4$	C2 Find the first four terms $nth \text{ term} = 2n + 7$	C3 Find the first three terms $nth \text{ term} = 7n - 5$	C4 Find the first five terms $nth \text{ term} = 11 - 3n$
D1 Find the n th term formula 3, 11, 19, 27, ...	D2 Find the n th term formula 7, 11, 15, 19, ...	D3 Find the n th term formula 4, 5, 6, 7, ...	D4 Find the n th term formula 39, 33, 27, 21, ...



SEQUENCES

ARITHMETIC SEQUENCES: BASICS

Ref: G291. **3R1**

<p>A1 Find the next two terms 2, 5, 8, 11, 14, 17</p>	<p>A2 Find the next two terms 11, 8, 5, 2, -1, -4</p>	<p>A3 Find the next two terms 9, 13, 17, 21, 25, 29</p>	<p>A4 Find the next two terms 23, 14, 5, -4, -13, -22</p>
<p>B1 Find the <u>20th</u> term 11, 14, 17, 20,</p> <p>$11 + 19 \times 3 = 68$</p>	<p>B2 Find the <u>30th</u> term 5, 13, 21, 29,</p> <p>$5 + 29 \times 8 = 237$</p>	<p>B3 Find the <u>45th</u> term 2, 7, 12, 17,</p> <p>$2 + 44 \times 5 = 222$</p>	<p>B4 Find the <u>51st</u> term 30, 23, 16, 9,</p> <p>$30 + 50 \times (-7) = -320$</p>
<p>C1 Find the <u>first three terms</u> $nth \text{ term} = 3n + 4$</p> <p>$3(1) + 4 = 7$ $3(2) + 4 = 10$ $3(3) + 4 = 13$</p>	<p>C2 Find the <u>first four terms</u> $nth \text{ term} = 2n + 7$</p> <p>$2(1) + 7 = 9$ $2(2) + 7 = 11$ $2(3) + 7 = 13$ $2(4) + 7 = 15$</p>	<p>C3 Find the <u>first three terms</u> $nth \text{ term} = 7n - 5$</p> <p>$7(1) - 5 = 2$ $7(2) - 5 = 9$ $7(3) - 5 = 16$</p>	<p>C4 Find the <u>first five terms</u> $nth \text{ term} = 11 - 3n$</p> <p>$11 - 3(1) = 8$ $11 - 3(2) = 5$ $11 - 3(3) = 2$ $11 - 3(4) = -1$ $11 - 3(5) = -4$</p>
<p>D1 Find the nth term formula 3, 11, 19, 27,</p> <p>$8n = 8, 16, 24, \dots$ $\therefore 3, 11, 19, 27 \text{ is } 8n - 5$</p>	<p>D2 Find the nth term formula 7, 11, 15, 19,</p> <p>$4n = 4, 8, 12, 16, \dots$ $\therefore 7, 11, 15, 19 \text{ is } 4n + 3$</p>	<p>D3 Find the nth term formula 4, 5, 6, 7,</p> <p>$(1)n = 1, 2, 3, 4, \dots$ $\therefore 4, 5, 6, 7 \text{ is } n + 3$</p>	<p>D4 Find the nth term formula 39, 33, 27, 21,</p> <p>$-6n = -6, -12, -18, \dots$ $\therefore 39, 33, 27, \dots \text{ is } -6n + 45$ $= 45 - 6n$</p>