

a Find the 6th term of 3, 6, 12, ... <i>96</i> a geometric term further on	b Find the nth term of 5, 10, 20, 40, ... <i>$5 \times 2^{n-1}$</i> the nth term of a geometric sequence	c Which term of 3, 6, 12, ... is 384? <i>the 8th</i> which term of a geometric sequence	d State whether 5, 10, 20, 35, ... is geometric or quadratic <i>quadratic</i> it looks geometric, but is not
e $u_1 = 2$ and $u_{n+1} = 3u_n - 2$. Find u_4 <i>28</i> a term to term rule in u notation	f A Fibonacci type sequence starts a, b. Find its 6th term. <i>$3a + 5b$</i> Fibonacci type in letters	g A Fibonacci type sequence has 3rd term 7 and 5th term 19. Find the 4th term. <i>12</i> work back from later terms	h $u_1 = u_2 = 1$ and $u_{n+2} = u_{n+1} + 2u_n$. Find u_5 <i>11</i> a rule using the two terms before
i A geometric sequence has 3rd term 12 and 5th term 48. Find the common ratio. <i>2 or -2</i> a ratio from terms two apart	j Find the 7th term of $\sqrt{2}, 2, 2\sqrt{2}, \dots$ <i>$8\sqrt{2}$</i> a surd ratio far along	k The Fibonacci type sequence $a, b, \dots$ has 3rd term 8 and 5th term 21. Find a and b. <i>$a = 3, b = 5$</i> two unknowns from two terms	l Find the nth term of 48, 24, 12, ... <i>$48 \times (\frac{1}{2})^{n-1}$</i> the nth term with a fraction ratio

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