

Special Sequences *ramp up*

a Find the 6th term of 3, 6, 12, ... _____	b Find the n th term of 5, 10, 20, 40, ... _____	c Which term of 3, 6, 12, ... is 384? _____	d State whether 5, 10, 20, 35, ... is geometric or quadratic _____
e $u_1 = 2$ and $u_{n+1} = 3u_n - 2$. Find u_4 _____	f A Fibonacci type sequence starts a, b . Find its 6th term. _____	g A Fibonacci type sequence has 3rd term 7 and 5th term 19. Find the 4th term. _____	h $u_1 = u_2 = 1$ and $u_{n+2} = u_{n+1} + 2u_n$. Find u_5 _____
i A geometric sequence has 3rd term 12 and 5th term 48. Find the common ratio. _____	j Find the 7th term of $\sqrt{2}, 2, 2\sqrt{2}, \dots$ _____	k The Fibonacci type sequence $a, b, \dots$ has 3rd term 8 and 5th term 21. Find a and b . _____	l Find the n th term of 48, 24, 12, ... _____

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