Geometric Sequences			
(a)	(b)	(c)	(d)
Find the next two terms in the sequence 7, 14, 28, 56,	Find the next two terms in the sequence 40, 20, 10, 5, 2.5, 1.25	Find the first four terms of the sequence with first term 2 and common ratio 3 2, 6, 18, 54	Find the first term and common ratio for the sequence: $3,15,75,375,$ $a=3,r=5$
(e)	(f)	(g)	(h)
Find the first term and common ratio for the sequence: $160, 80, 40, 20,$ $a = 160, r = \frac{1}{2}$	Find the next two terms in the sequence $2, -4, 8, -16,$ $32, -64$	Find the first four terms of the sequence with first term 120 and common ratio 0.5 $120,60,30,15$	Find the first term and common ratio for the sequence: $4, -8, 16, -32,$ $a = 4, r = -2$
(i)	(j)	(k)	(1)
Find the first four terms of the sequence with first term 5 and common ratio -2	Find the first four terms of the sequence with nth term $6\times 3^{n-1}$	Find the nth term of the sequence with first term 10 and common ratio 4	Find the nth term of the sequence with first term 250 and common ratio 0.2
5, -10, 20, -40	6, 18, 54, 162	$10\times 4^{n-1}$	$250\times0.2^{n-1}$
(m)	(n)	(p)	
Find the first four terms of the sequence with nth term $400 \times \left(\frac{1}{2}\right)^{n-1}$ $400, 200, 100, 50$	Find the nth term of the sequence with first term 8 and common ratio -5 $8 \times (-5)^{n-1}$	A tree starts with four branches. Every month each branch splits into two. How many branches will the tree have after 5 months? Find a formula for the number of branches b after n months.	