

Question			Answer	Marks	AO	Guidance	
3	(a)	(i)	$u_2 = 4$	B1	1.1		No need to label terms as u_2 etc, and condone 3 appearing at start of list ie 3, 4... would be B1
			$u_3 = 11, u_4 = 116$	B1FT	1.1	Both correct FT their u_2	Ignore any further terms given
				[2]			
3	(a)	(ii)	Increasing or diverging	B1	2.4	B0 if additional incorrect statement such as ‘diverging AP’ or ‘increasing exponentially’	‘Increasing monotonically’ is fine, but B0 if just ‘monotonic’
				[1]			
3	(b)		$r = \frac{2}{3}$ oe	M1	3.1a	Attempt to find r	Attempts at a and r could be in either order, with M1 awarded for a correct method with a possibly incorrect a or r
			$a = 18$	M1	2.1	Attempt to find a	Correct a and/or r seen in formula for sum to infinity would imply the M mark(s)
			$S_\infty = \frac{18}{1 - \frac{2}{3}} = 54$	A1	1.1	Use correct a and r to obtain sum to infinity as 54	
				[3]			‘Determine’ so some method needed. Minimum is $\frac{18}{\frac{1}{3}} = 54$. SC B1 for 54 with no working shown.