

Question			Answer	Marks	AO	Guidance
4			$6r^3 = \frac{2}{9}$	B1	3.1a	- Forming a correct equation - Or first 4 four terms seen $6, 2, \frac{2}{3}, \frac{2}{9}$ - soi by correct answer or correct value for r
			$r^3 = \frac{1}{27}$ so $r = \frac{1}{3}$	M1	1.1	- Attempt to solve <i>their</i> equation for 4th term of a geometric sequence including taking correct root for <i>their</i> equation <i>Their</i> equation must be from an attempt to give 4th term of a geometric sequence e.g. $6r^4 = \frac{2}{9} \rightarrow r^4 = \frac{1}{27}$ so $r = \sqrt[4]{\frac{1}{27}} = 0.438[6 \dots]$ - May be implied by correct answer - Ignore extra values of r for M1
			$(S_{\infty} =) 9$	A1	1.1	- cao, nfw - Uses $\frac{a}{1-r}$ to find $S_{\infty} = \frac{6}{2/3}$, answer must be simplified. A0 if other values also found unless explicitly rejected
				[3]		