Q	Marking instructions	AO	Marks	Typical solution
12(a)	Substitutes $u_1 = 3$ into $\frac{-6}{u_n}$ PI $u_2 = -2$	1.1a	M1	$u_2 = -2$ $u_3 = 3$
	Obtains $u_2 = -2$, $u_3 = 3$, $u_4 = -2$ Condone missing labels if order is obvious.	1.1b	A1	$u_4 = -2$
	Subtotal		2	
Q	Marking instructions	AO	Marks	Typical solution
12(b)	States 2	2.2a	B1	2
	Subtotal		1	
Q	Marking instructions	AO	Marks	Typical solution
12(c)	Shows that pairs of consecutive terms sum to 1 in a series Or Considers a sum of 3s and a sum of ±2s	3.1a	M1	$\sum_{n=1}^{101} u_n = 3 - 2 + 3 - 2 + \dots + 3 - 2 + 3$
	Deduces $\sum_{n=1}^{101} u_n = 53$	2.2a	R1	= 53
	Subtotal		2	
	Question 12 Total		5	