

Q	Marking instructions	AO	Marks	Typical solution
7(a)(i)	Substitutes 2 into formula correctly to obtain $u_2 = -1$ PI by correct $u_3 = 2$	1.1a	M1	$u_2 = -1$ $u_3 = 2$
	Obtains correct $u_3 = 2$ and no further working resulting in a contradictory value for u_3	1.1b	A1	
	Subtotal		2	
7(a)(ii)	Deduces correct $u_{50} = -1$	2.2a	B1	$u_{50} = -1$
	Subtotal		1	
7(b)	Deduces correct $u_1 = -2$ Accept any correct value eg $\sqrt{2}$ or $-\sqrt{2}$ Condone if ± 2 seen	2.2a	B1	$u_1 = -2$
	Subtotal		1	
	Question Total		4	