

Q	Marking instructions	AO	Marks	Typical solution
3	Substitutes $x = 2$ into $p(x)$	1.1a	M1	$2(2)^3 - a(2)^2 + 6(2) + 2a = 0$ $16 - 4a + 12 + 2a = 0$ $28 - 2a = 0$ $a = 14$
	Sets their $p(2)$ equal to zero and solves to obtain a value for a PI by $a = 14$	1.1a	M1	
	Obtains $a = 14$	1.1b	A1	
	Question 3 Total		3	