

Q1. (2017)

22	Alternative method 1		
	Second differences 8	M1	Implied by $4n^2$
	Any three values from -2 1 4 7	M1dep	
	$4n^2 + 3n - 5$	A1	oe Allow $a = 4$ $b = 3$ $c = -5$
	Alternative method 2		
	Any 3 of $a + b + c = 2$ $4a + 2b + c = 17$ $9a + 3b + c = 40$ $16a + 4b + c = 71$	M1	Using $an^2 + bn + c$
	Any 2 equations in 2 unknowns eg $3a + b = 15$ $5a + b = 23$ $7a + b = 31$ $8a + 2b = 38$ $12a + 2b = 54$ $15a + 3b = 69$	M1dep	Correctly eliminates the same letter using two different pairs of equations
	$4n^2 + 3n - 5$	A1	oe Allow $a = 4$ $b = 3$ $c = -5$