

Q	Marking instructions	AO	Marks	Typical solution
9(a)	Expresses at least one term in x or x^2 correctly May be unsimplified Condone missing – sign	1.1a	M1	$(1-5x)^7 = 1 + {}^7C_1(-5x) + {}^7C_2(-5x)^2$ $= 1 - 35x + 525x^2$
	Obtains $-35x$ or $+525x^2$	1.1b	A1	
	Obtains $1 - 35x + 525x^2$	1.1b	A1	
	Subtotal		3	

Q	Marking instructions	AO	Marks	Typical solution
9(b)	Multiplies the coefficient of their x term by k Or Multiplies the coefficient of their x^2 term by 3 Condone one sign error	3.1a	M1	Coefficient of x^2: $-35 \times k + 525 \times 3 = 1477$ $-35k + 1575 = 1477$ $-35k = -98$ $k = \frac{14}{5}$
	Multiplies the coefficient of their x term by k and multiplies the coefficient of their x^2 term by 3 and equates the sum to 1477 Condone one sign error	1.1a	M1	
	Obtains $k = \frac{14}{5}$	1.1b	A1	
	Subtotal		3	

	Question 9 Total		6	
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