

Q	Marking instructions	AO	Marks	Typical solution
4(a)	Expands, at least first term and one other term correct	1.1a	M1	$1 + 5 \times (-2x) + \frac{5 \times 4}{2} (-2x)^2$ $= 1 - 10x + 40x^2$
	Expands with all terms correctly simplified	1.1b	A1	
	Subtotal		2	

Q	Marking instructions	AO	Marks	Typical solution
4(b)	Correctly expands $(1 + 5x)^2$	1.1a	M1	$(1 + 5x)^2 = 1 + 10x + 25x^2$ $2 + 65x^2$
	Obtains correct simplified expression for their $(1 - 2x)^5 + (1 + 5x)^2$	1.1b	A1F	
	Subtotal		2	

Q	Marking instructions	AO	Marks	Typical solution
4(c)	Obtains $x = 0.001$ as the value to use	3.1a	M1	$\text{Use } x = 0.001$ $2 + 65 \times 0.001^2$ $= 2.000\ 065$
	Obtains 2.000065 CSO	1.1b	A1	
	Subtotal		2	

	Question Total		6	
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