

Q	Marking instructions	AO	Marks	Typical solution
3(a)	Integrates with at least one term in x correct	1.1a	M1	$\frac{1}{2}x^4 - \frac{8}{x} + c$
	Obtains correct integral Condone omission of $+c$ Condone inclusion of integral sign ACF	1.1b	A1	
	Includes $+c$ FT their integral Must be some evidence of integration e.g., a power increased by 1	1.1b	B1F	
	Subtotal		3	

Q	Marking instructions	AO	Marks	Typical solution
3(b)	Substitutes $x = 2$ and $y = 0$ into their integral from part (a) to find a value of c PI by their correct value of c	1.1a	M1	$0 = \frac{1}{2}2^4 - \frac{8}{2} + c$ $c = -4$
	Finds correct value of c for their equation and states equation FT their integral from (a) but must have $+c$	1.1b	A1F	
	Subtotal		2	

	Question 3 Total		5	
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