

6	States a correct integral expression (ignore limits at this stage)	AO1.1a	M1	$\text{Area} = \int_a^{2a} \left(6x^2 + \frac{8}{x^2} \right) dx$
	Integrates at least one term correctly	AO1.1b	A1	$= \left[2x^3 - \frac{8}{x} \right]_a^{2a}$
	Substitutes $2a$ and a into 'their' integrated expression	AO1.1a	M1	$= \left(16a^3 - \frac{4}{a} \right) - \left(2a^3 - \frac{8}{a} \right)$
	States correct final answer with terms collected FT correct substitution into incorrect integral provided both M1 marks awarded	AO1.1b	A1F	$= 14a^3 + \frac{4}{a}$
	Total		4	