

Q	Marking Instructions	AO	Marks	Typical Solution
3	Differentiates once, at least one term correct	1.1a	M1	$\frac{dy}{dx} = 12x^3 - \frac{2}{x^2} - \frac{1}{4}$ $\frac{d^2y}{dx^2} = 36x^2 + \frac{4}{x^3}$
	Differentiates twice, both powers of x correct at least one coefficient correct (ACF) Condone one extra term from error differentiating $-\frac{x}{4}$ twice	1.1a	M1	
	Obtains completely correct expression with no errors	1.1b	A1	
	Total		3	