Q	Marking instructions	AO	Marks	Typical solution
5	Uses the quotient rule to obtain $\frac{Ae^{3x}\left(x^2-5\right)\pm Bxe^{3x}}{\left(x^2-5\right)^2}$ Condone $x^4 \pm 25$ for v^2 Condone missing brackets	1.1a	M1	$\frac{dy}{dx}=\frac{3e^{3x}\left(x^2-5\right)-2xe^{3x}}{\left(x^2-5\right)^2}$
	Uses the quotient rule to obtain at least one of $3e^{3x}\left(x^2-5\right)$ or $-2xe^{3x}$ Condone $x^4 \pm 25$ for v^2	1.1b	A1	
	Obtains $\frac{3e^{3x}\left(x^2-5\right)-2xe^{3x}}{\left(x^2-5\right)^2}$ Do not ISW	1.1b	A1	
	Question 5 Total		**3**	