

Q	Marking instructions	AO	Marks	Typical solution
5	Obtains $2 \times 3e^{2x}$ or $6e^{2x}$ or $2y$ PI by correct answer	1.1b	B1	$\frac{dy}{dx} = 2 \times 3e^{2x}$ $y = 10 \Rightarrow \frac{dy}{dx} = 2 \times 10 = 20$
	Substitutes $y = 10$ or $3e^{2x} = 10$ in their $\frac{dy}{dx}$ or substitutes $x = [0.6, 0.602]$ or $x = \frac{1}{2} \ln\left(\frac{10}{3}\right)$ OE in their $\frac{dy}{dx}$	1.1a	M1	
	Obtains 20 CAO 20 cannot come from a rounded value for 20 seen	1.1b	A1	
Question 5 Total			3	