Question Number	Scheme	Marks
2	$\text{Vol} = \pi\int_0^3 \left(e^{3x}\right)^2 dx \left(= \pi\int_0^3 e^{6x} dx\right)$	M1
	$\pi\left[\frac{1}{6}e^{6x}\right]_0^3, = \left(\frac{1}{6}e^{18} - \frac{1}{6}\right)\pi$ oe	dM1A1,A1 (4)
		[4]

M1	Use $\text{Vol} = \pi\int y^2 dx$ Award if pi missing here but reappears later. Limits not needed, ignore any shown. dx may be missing.
dM1	Square correctly and attempt the integration. $e^{6x} \to ke^{6x}$ where $k = \pm\frac{1}{6}$ or ± 1 Limits and dx may be missing. Award if pi missing here but reappears later.
A1	Correct integration including correct limits
A1	Substitute the limits and obtain the correct answer