7	(a)	Write down an expression for the gradient of the curve $y = e^{kx}$ .	[1]
	(b)	The line L is a tangent to the curve $y = e^{\frac{1}{2}x}$ at the point where $x = 2$ .	
		Show that L passes through the point (0, 0).	[4]
	(c)	Find the coordinates of the point of intersection of the curves $y = 3e^x$ and $y = 1 - 2e^{\frac{1}{2}x}$ .	[6]

## Instructions to invigilators:

'Determine the coordinates ...'

Before the start of the exam, please read the following notice out **twice** to candidates:

Turn to page 4 of the question paper and look at question 7(c).

Cross out the word 'Find' and replace it with 'Determine'.

The beginning of the question should now read: