4	ļ	Writes $\int \frac{t+1}{t} dt = \int 1 + \frac{1}{t} dt$ and attempts to integrate	M1	2.1	
		$=t+\ln t \ \left(+c\right)$	M1	1.1b	
		$(2a+\ln 2a)-(a+\ln a)=\ln 7$	M1	1.1b	
		$a = \ln \frac{7}{2} \text{ with } k = \frac{7}{2}$	A1	1.1b	
	(4 marks)				
Notes:					
M1:	Attempts to divide each term by t or alternatively multiply each term by t^{-1}				
M1:	Integrates each term and knows $\int_{t}^{1} dt = \ln t$. The + c is not required for this mark				
M1:	Subs	Substitutes in both limits, subtracts and sets equal to ln7			
A1:	Proceeds to $a = \ln \frac{7}{2}$ and states $k = \frac{7}{2}$ or exact equivalent such as 3.5				

Question