2	(a) Given that $\log_a x =$	$= \frac{\log_b x}{\log_b a} \text{ show that } \log_a b = \frac{1}{\log_b a}$	(2)
	(b) Hence solve the eq	uation	
		$\log_x 8 - 6\log_8 x = 1 \qquad x \in \mathbb{Z}^+$	(5)

Question 2 continued
(Total for Question 2 is 7 marks)

