8 (a)	Using $y = 2^{2x}$ as a substitution, show that
	$16^x - 2^{(2x+3)} - 9 = 0$
	can be written as
	$y^2 - 8y - 9 = 0$ [2 marks



8 (b)	Hence, show that the equation	
	$16^x - 2^{(2x+3)} - 9 = 0$	
	has $x = \log_2 3$ as its only solution.	
	Fully justify your answer.	
		[4 marks]
	-	

Turn over for the next question