8	The sum of the first and second terms of a geometric series G is 400	
	The sum of the second and third terms of G is 100	
	(a) Show that the common ratio of G is $\frac{1}{4}$	(4)
	(b) Show that the first term of G is 320	(2)
	(c) Find the sum to infinity of G	(2)
	The sum to n terms of G is S_n	
	(d) Find, using logarithms, the least value of n such that	
	$S_n > 426.6$	(4)
		(4)

Question 8 continued			



DO NOT WRITE IN THIS AREA

Question 8 continued	

Question 8 continued			
(Total for Question 8 is 12 marks)			
(Total for Question 6 is 12 marks)			

