6	The sum of the first term and the third term of a geometric series is 250	
	The sum of the second term and the third term of the series is 150	
	The common ratio of the series is $r$ .	
	(a) Find the two possible values of <i>r</i> .	
		(5)
	The sum of the first $n$ terms of the series is $S_n$	
	Given that $r > 0$ and that $S_n > 399.99$	
	(b) find the least value of <i>n</i> .	
		(6)

Question 6 continued					



Question 6 continued	

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Question 6 continued	
	(Total for Question 6 is 11 marks)

