3	A geometric series $G$ has first term $a$ and common ratio $r$ The 2nd term of $G$ is $\frac{5}{16}$ and the 5th term of $G$ is $\frac{135}{1024}$ (a) Find	
	<ul><li>(i) the value of r</li><li>(ii) the value of a</li></ul>	(5)
	Given that $G$ is convergent with sum to infinity $S$	
	(b) find the exact value of <i>S</i>	(2)

	Question 3 continued
A	
S AREA	
THE STATE OF THE S	
NOT WRITE IN	
DOA	
THIS AREA	
WRITEIN	
NOT W	
POO	
ARE	
NTTHIS	
RITE	
DO NOT WRITE IN THIS AREA	
DON	
	(Total for Question 3 is 7 marks)

