3	3 A geometric series has first term a and common ratio r , where $r > 0$					
	Given that the 3rd term of the series is 5 and that the 5th term of the series is $\frac{5}{2}$ (a) find					
	(i) the exact value of r					
	(ii) the value of a	(4)				
	(b) Find the sum to infinity of this series. Give your answer in the form $p + q\sqrt{2}$ where p and q are integers.					
		(2)				

Question 3 contin	lued		
		(Total for Questi	ion 3 is 6 marks)

