5	The <i>n</i> th term of a geometric series with common ratio <i>r</i> is u_n Given that $u_2 + u_4 = 212.5$ and that $u_3 + u_4 = 62.5$	
	(a) find the two possible values of r .	(5)
	Given that the series is convergent with sum to infinity S ,	
	(b) find the exact value of <i>S</i> .	(2)

