7	The 7th term of a geometric series is 192 and the 8th term of this geometric series is 1152 (a) Find, as a fraction in its simplest form, the 4th term of this geometric series.	(3)
	A different geometric series $G$ has a common ratio $r$ and $n$ th term $t_n$ Given that $t_3 = 24$ and $t_2 + t_3 + t_4 = -36$ (b) show that $r$ satisfies the equation	
	$2r^2 + 5r + 2 = 0$	
	Given further that <i>G</i> is convergent with sum to infinity <i>S</i> ,	(5)
	(c) find the value of <i>S</i> .	
		(4)

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