Question	Answer	Marks	Guidance
10(a)	State or imply that first 3 terms of GP are $5+d,\ 5+4d,\ 5+10d$	**B1**	
	Form equation $(5+4d)^2=(5+d)(5+10d)$ or equivalent	**M1**	
	Obtain $d=2.5$	**A1**	Ignore 0 as a solution. **SC B1** Obtain $d=2.5$ and 7.5, 15, 30 by trial and improvement www.
	Alternative Method for Question 10(a):		
	State or imply that first 3 terms of GP are $5+d,\ 5+4d,\ 5+10d$	**B1**	
	$(5+d)R=5+4d \rightarrow d=\dfrac{5-5R}{R-4}$, $(5+d)R^2=5+10d \rightarrow R^2-3R+2\ [=0]$	**M1**	OE Eliminates d.
	Obtain $d=2.5$	**A1**	
		3	

Question	Answer	Marks	Guidance
10(b)	Use correct formula for sum of AP with their value of d	**M1**	
	Obtain or imply 7700	**A1**	
	State or imply GP is $7.5,\ 15,\ 30, \ldots$	**B1**	
	Use correct formula for sum of GP with their common ratio	**M1**	
	Obtain $S_{77} - G_{10} = 27.5$	**A1**	
		5	