5	weig they	heavyweight boxers decide that they would be more successful if they competed in a lower ght class. For each boxer this would require a total weight loss of 13 kg. At the end of week 1 have each recorded a weight loss of 1 kg and they both find that in each of the following weeks reweight loss is slightly less than the week before.
		er $A$ 's weight loss in week 2 is $0.98$ kg. It is given that his weekly weight loss follows an arithmetic gression.
	(i)	Write down an expression for his total weight loss after <i>x</i> weeks. [1]
	(ii)	He reaches his 13 kg target during week $n$ . Use your answer to part (i) to find the value of $n$ . [2]

geometric progression. (iii) Calculate his total weight loss after 20 weeks and show that he can never reach his target. [4] ..... ..... .....

Boxer B's weight loss in week 2 is 0.92 kg and it is given that his weekly weight loss follows a