2.	Jamie takes out an interest-free loan of £8100	
	Jamie makes a payment every month to pay back the loan.	
	Jamie repays £400 in month 1, £390 in month 2, £380 in month 3, and so on, so that the amounts repaid each month form an arithmetic sequence.	
	(a) Show that Jamie repays £290 in month 12	(1)
	After Jamie's Nth payment, the loan is completely paid back.	
	(b) Show that $N^2 - 81N + 1620 = 0$	(2)
	(c) Hence find the value of N .	(2)