12	In an experiment 500 fruit flies were released into a controlled environment. After 10 days there were 650 fruit flies present.			rere
	Munirah believes that $N$ , the number of fruit flies present at time $t$ days after the fruit flies are released, will increase at the rate of 4.4% per day. She proposes that the situation is modelled by the formula $N = Ak^t$ .			will
	(i)	Wri	te down the values of $A$ and $k$ .	[2]
	(ii)	Dete	ermine whether the model is consistent with the value of $N$ at $t = 10$ .	[2]
	(iii)	Wha	at does the model suggest about the number of fruit flies in the long run?	[1]
Subsequently it is found that for large values of $t$ the number of fruit flies in the controlled environment oscillates about 750. It is also found that as $t$ increases the oscillations decrease in magnitude.				
Munirah proposes a second model in the light of this new information.				
$N = 750 - 250 \times e^{-0.092t}.$				
	(iv)	Iden	ntify three ways in which this second model is consistent with the known data.	[3]
	(v)	(A)	Identify one feature which is not accounted for by the second model.	[1]
	(B) Give an example of a mathematical function which needs to be incorporated in the model t account for this feature.			l to [1]