1.  $N(t) = N(0) e^{rt}$  ln EN(t)/N(0) = t ln E

The ability of the lice population to grow so rapidly is fairly surprising, but less so when I consider that this kind of growth would only occur under extremely favorable cir cum stances in which resources are completely unlimited.

	Nt = No ert
ange of the contract of the co	3.8×109 6.9×109 e 41
	2 = e r 41
	$ln2 = lne^{-41}$
-	1n2 = 41r
	1/2 = r
	r = 0.017
3.	$T_d = \frac{0.69}{r}$ $r = 0.12$
	Td = 5.75 years
4.	The top 3 causes of death listed by the CDC are health-related in the U.S.
	These are heart disease, carrier, and chapic lower respirating disease. Since
	health is on an individual basis, I think this is why we
The state of the s	can easy the death rate is density-independent.
	Possible mechanisms which could have an impact on human death rates
	could be increased incidence of lethal car acidents as the
Control of the Control	chance for an accident increases with an increase in population.
100	Apother mechanism could be an increase in homicides as deaths
-	go up with an increase in population having it be possibly
	density-dependent.
	A third mechanism of death in the US according to the CDC is
-	influenza Ipneumonia. While this is wealth-related, unlike the
	top 3, this one is much more contagious. As population
	density increases, the # of people who could get infected goes up
	9
-	potentially increasing the death-rate.

