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Problem 1

For the data given, determine the inactivation for one of the following four waters assuming that Chick's law applies

$\log N/N_0$	Time, min
7	0.0
6	2.0
5	4.0
4	6.5
3	8.5
2	10.0

Problem 2

Chlorine disinfection studies have been conducted on a treated wastewater. For the results given below:

a) Determine the bacterial decay coefficient k and the dilution constant n for each initial dosage; b) Determine the contact time necessary to attain a 99% kill at the three chlorine dosage.

Chlorine Dosage, mg/l	Percent Survival at Specified Contact Time				
	1 min	2 min	4 min	8 min	16 min
50	94	80	43	20	8
80	60	35	30	10	2
100	82	41	15	2.8	0.5



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