

MATH 114 - Reading Assignment 24 - Section 4.8 - Spring 2008

State your name for the record _____

1. A model for uninhibited growth is given by $N(t) = N_0 e^{kt}$, where N_0 is

and k is

2. A model for uninhibited decay is given by $A(t) = A_0 e^{kt}$, where A_0 is

and k is

3. The time required for half of a radioactive substance to decay is called the _____.

4. The temperature of a heated object can be modeled by $u(t) = T + (u_0 - T) e^{kt}$, where T is

u_0 is

and k is

5. List six properties of the logistic growth function.