16.5 Applications of Exponential and Logarithmic Functions Name:_____

- $A = A_0 e^{kt}$

    - If k>0 then:

    - If k<0 then:

- Examples:
    1. $25000 at 4% compounded continuously. Doubling Time?

2. Population is 203.3 million in 1970 and 300.9 million in 2007. In what year will it be 315 million?

3. Carbon Dating: After 5715 years amount of carbon present is half of what was there originally.