

### **exponential growth and decay pdf**

Exponential growth is exhibited when the rate of change—the change per instant or unit of time—of the value of a mathematical function is proportional to the function's current value, resulting in its value at any time being an exponential function of time, i.e., a function in which the time value is the exponent. Exponential decay occurs in the same way when the growth rate is negative.

### **Exponential growth - Wikipedia**

A quantity is subject to exponential decay if it decreases at a rate proportional to its current value. Symbolically, this process can be expressed by the following differential equation, where  $N$  is the quantity and  $\lambda$  (lambda) is a positive rate called the exponential decay constant:  $\frac{dN}{dt} = -\lambda N$ . The solution to this equation (see derivation below) is:  $N = N_0 e^{-\lambda t}$ ,

### **Exponential decay - Wikipedia**

Chapter 8 : Exponential and Logarithmic Functions 8.1 Exponential Growth. Click below for lesson resources.

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Exponential Growth. The exponential function is used to model growth—generally population growth in biology, but this may also include the growth of money via compound interest.

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