

Exponential Growth and Decay

Exponential functions are of the form:

$$y = a \cdot b^x$$

Notice: The variable x is an exponent. As such, the graphs of these functions are not straight lines. In a straight line, the "rate of change" is the _____ across the graph. In these graphs, the "rate of change" _____ or _____ across the graphs.



The graphs of exponential functions change based upon the values of a and b :

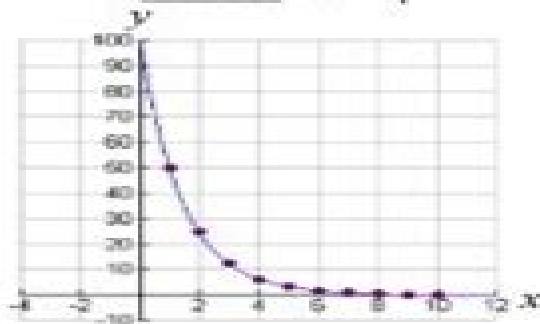
$$y = a \cdot b^x$$

Example

$$y = 100 \cdot (0.5)^x$$

when $a > 0$ and the b is between 0 and 1, the graph will be _____ (decaying).

For this example, each time x is increased by 1, y decreases to _____ of its previous value.



Such a situation is called
Exponential Decay.

$$y = a \cdot b^x$$

Example

$$y = 1 \cdot (2)^x$$

when $a > 0$ and the b is greater than 1, the graph will be _____ (growing).

For this example, each time x is increased by 1, y increases by a factor of _____.



Such a situation is called
Exponential Growth.

Algebra Exponential Growth And Decay Review Worksheet

Yvelyne Germain-McCarthy, Ivan Gill



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Digital SAT Study Guide Premium, 2024: 4 Practice Tests + Comprehensive Review + Online Practice Brian W. Stewart,2023-08 An expert overview of the new Digital SAT how the exam is changing and what to expect from the digital interface on test day

New York Math: Math B ,2000 Nuclear Science Abstracts ,1975 **Bringing the Common Core Math Standards to Life** Yvelyne Germain-McCarthy,Ivan Gill,2014-11-20 Provides a clear explanation of the big shifts happening in the classroom as a result of the Common Core State Standards Offers real examples and detailed analyses of how exemplary teachers are using engaging strategies across the curriculum Includes practical ready to use tools you can take back to your classroom

College Algebra Michael Sullivan,2008

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