

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 :

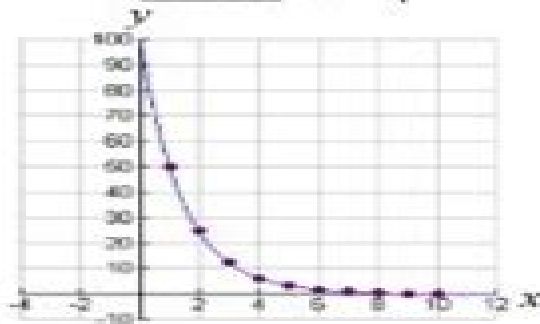
$$y = a \cdot b^x$$

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.

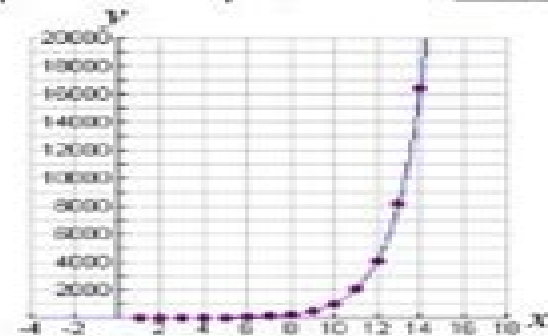
$$y = a \cdot b^x$$

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

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A decorative graphic consisting of a light blue horizontal bar with a rounded right end, and a red circular shape with a gradient, partially overlapping the bar's end.

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