# 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:

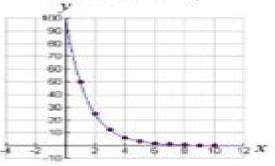
$$y = a \cdot b^*$$

Example

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

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

**Toby J. Karten** 

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