# **Exponential Growth and Decay Functions**

Exponential function:  $f(x) = ab^x$  where  $a \neq 0$ 

If 
$$a > 0$$
,  
Domain:  $(-\infty, \infty)$ ; Range:  $(0, \infty)$ 

$$b > 0$$
 (real number),  $b \neq 1$ 

If a > 0 and b > 1, then  $y = ab^x$  is an exponential growth function, and b is the growth factor.

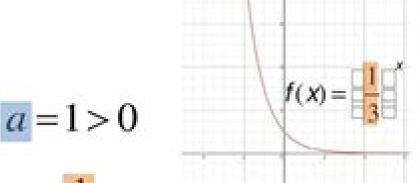
If a > 0 and 0 < b < 1, then  $y = ab^x$  is an exponential decay function, and b is the decay factor.

### **Exponential Growth:**

$$f(x) = 3^{x}$$

$$a = 1 > 0$$

**Exponential Decay:** 



$$b = 3 > 1 \rightarrow \text{exponential growth}$$
  
b is the growth factor

$$b = \frac{1}{3} < 1 \rightarrow \text{exponential decay}$$
  
b is the decay factor

## **Reteach Exponential Functions Growth And Decay**

**M Woodhall** 

**Reteach Exponential Functions Growth And Decay:** 

The Enigmatic Realm of Reteach Exponential Functions Growth And Decay: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Reteach Exponential Functions Growth And Decay** a literary masterpiece penned by a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book is core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of people who partake in its reading experience.

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