

Logarithmic Functions

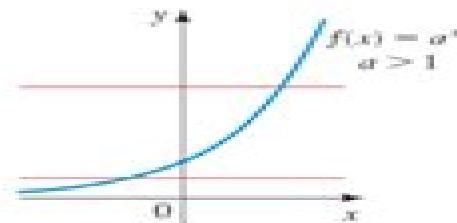
Every exponential function $f(x) = a^x$, with $a > 0$ and $a \neq 1$, is a one-to-one function by the Horizontal Line Test (see [Figure 1](#) for the case $a > 1$) and therefore has an inverse function. The inverse function f^{-1} is called the *logarithmic function with base a* and is denoted by \log_a . Recall from [Section 2.8](#) that f^{-1} is defined by

$$f^{-1}(x) = y \Leftrightarrow f(y) = x$$

This leads to the following definition of the logarithmic function.

Figure 1

$f(x) = a^x$ is one-to-one.



Definition of the Logarithmic Function

Let a be a positive number with $a \neq 1$. The *logarithmic function with base a*, denoted by \log_a , is defined by

$$\log_a x = y \Leftrightarrow a^y = x$$

So $\log_a x$ is the exponent to which the base a must be raised to give x .

Note

We read $\log_a x = y$ as "log base a of x is y ."

When we use the definition of logarithms to switch back and forth between the logarithmic form $\log_a x = y$ and the exponential form $a^y = x$, it is helpful to notice that, in both forms, the base is the same.

Chapter 4 Exponential And Logarithmic Functions

Answer Key

Kay Haralson

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