

## Logarithmic Functions

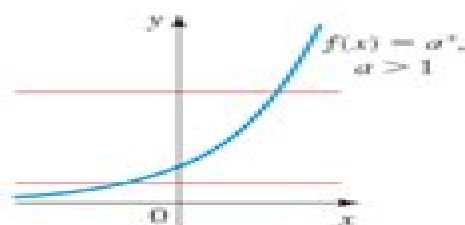
Every exponential function  $f(x) = a^x$ , with  $a > 0$  and  $a \neq 1$ , is a one-to-one function by the Horizontal Line Test (see [Figure 1](#) for the case  $a > 1$ ) and therefore has an inverse function. The inverse function  $f^{-1}$  is called the *logarithmic function with base  $a$*  and is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

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

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

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

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

**Karl J. Smith**



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