## Section 8.0 – Exploring the Logarithmic Function

#### Logarithmic Function:

The inverse of the exponential function  $y = a^x$  is the function with exponential equation  $x = a^y$ . We write y as a function of x using the logarithmic form of this equation,  $y = \log_a(x)$ . As with the exponential function, a > 0, and  $a \ne 1$ .

The general shape of the graph of the logarithmic function depends on the value of the base.

When  $\alpha > 1$ , the exponential function is an increasing function, and the logarithmic function is also an increasing function.

When  $0 < \alpha < 1$ , the exponential function is a decreasing function and the logarithmic function is also a decreasing function.

The y-axis is the vertical asymptote for the logarithmic function. The x-axis is the horizontal asymptote for the exponential function.

The x-intercept of the logarithmic function is 1, while the y-intercept of the exponential function is 1.

The domain of the logarithmic function is  $D: \{x \in R \mid x > 0\}$ , since the range of the exponential function is  $R: \{y \in R \mid y > 0\}$ 





The range of the logarithmic function is  $R: \{y \in R\}$ , since the domain of the exponential function is  $D: \{x \in R\}$ .

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**S Ashworth** 

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