The Common Log is a special logarithm that has a base of 10.

$$\log_{10} x$$
 $\log x$

Common Log Form vs. Exponential Form

$$\log x = y \quad \longleftrightarrow \quad x = 10^y$$

Logarithmic Form Exponential Form

The Common Log is a special logarithm that has a base of 10.

$$\frac{\log 10}{\log x} = 1$$

Common Log Form vs. Exponential Form

$$\log x = y \quad \longleftrightarrow \quad x = 10^y$$

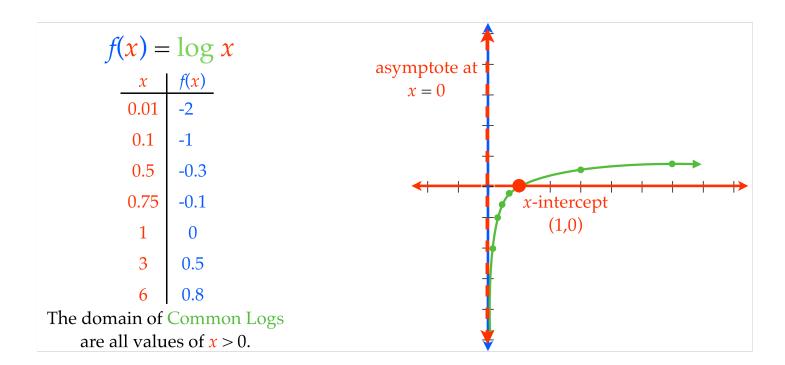
Logarithmic Form Exponential Form

Evaluating Common Logs

log 9

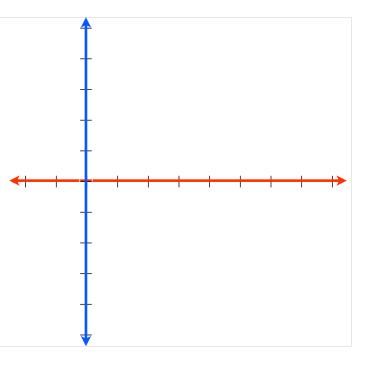
log -2

The domain of Common Logs are all values of x > 0.



Graph the following using transformations

$$f(x) = \log(x+1) - 2$$



Graph the following using transformations

$$f(x) = -\log x + 3$$

