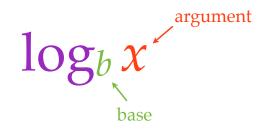
An expression that can be written in the form...



"log base b of x"

What's the purpose of the logarithmic function

$$2^x = 4$$
 $x = 2$

$$2^x = 6 \qquad x = ??$$

$$2^x = 8 \qquad x = 3$$

The logarithmic function allows us to find the exponent to which a specific base must be raised to give a specific value.

$$x = \log_2 6$$
 $x \approx 2.5849$