18.1 – Changing Forms of Logarithms

Logarithm
If $y = b^x$, then $\log_b y = x$.

Rewrite each expression in logarithmic form.

1. $25 = 5^2$

2. $729 = 3^6$

3. $10^0 = 1$

Rewrite each expression in exponent form.

4. $\log_8 16 = x$

5. $\log_9 27 = x$

6. $\log_{10} 100 = x$

A common logarithm is a logarithm that uses base 10. Common logarithms can be written as $\log_{10} y$ or $\log y$.