

4.4: Properties of Logarithmic Functions

Attendance Quiz

1. Decide whether each formula/statement is TRUE or FALSE. If you choose FALSE, write how you would correct the statement. $x > 0$, $y > 0$, $x \neq 1$, $y \neq 1$

- $\log_x 1 = 1$
- $\log_y y = 0$
- $\log_{-7}(-7) = 1$
- $\log_5 5^{-3}$ not defined
- $\log xy = \log x + \log y$
- $\log \frac{x}{y} = \frac{\log x}{\log y}$
- $\log(x - y) = \frac{\log x}{\log y}$
- $\log_x y = \frac{\log x}{\log y}$
- $\log_5 \frac{1}{5} = -1$