

Rewrite as Single Logarithm Using Change of Base Rule

Example: $\frac{\log_5 8}{\log_5 3} = \log_3 8$

$$\frac{\log_2 15}{\log_2 6} = \underline{\hspace{2cm}}$$

$$\frac{\log_4 9}{\log_4 5} = \underline{\hspace{2cm}}$$

$$\frac{\log_3 8}{\log_3 7} = \underline{\hspace{2cm}}$$

$$\frac{\log_{10} 5}{\log_{10} 2} = \underline{\hspace{2cm}}$$

$$\frac{\log_{11} 6}{\log_{11} 2} = \underline{\hspace{2cm}}$$

$$\frac{\log_3 10}{\log_3 5} = \underline{\hspace{2cm}}$$