

Logarithmic Equations

Solve each logarithmic equation.

 $\log_3 5 + \log_3 x = \log_3 30$

$$\log_5 180 - \log_5 x = \log_5 12$$

x = _____

 $\log_2 12 + \log_2 x - \log_2 10 = \log_2 6$

x =

 $\log_4 9 - \log_4 6 + \log_4 x = \log_4 12$

x = _____

 $\log_3 14 + \log_3 9 - \log_3 x = \log_3 6$

x = _____