

Logarithmic Equations

Solve each logarithmic equation.

$$\log_3 42 - \log_3 x = \log_3 7$$

$$\log_2 x - \log_2 15 = \log_2 9$$

x = _____

$$\log_5 154 - \log_5 x = \log_5 14$$

$$\log_2 x - \log_2 10 = \log_2 1,000$$

x = _____

$$\log_4 144 - \log_4 x = \log_4 36$$