

Logarithmic Equations

Solve each logarithmic equation.

$$\log_5 8x - \log_5 2 = \log_5 16$$

$$\log_3(3x - 2) - \log_3 x = \log_3 2$$

x =

$$\log_{10}(7x - 6) - \log_{10} 2 = \log_{10} 2x$$

$$\log_2(x+1) - \log_2(x-1) = \log_2 5$$

$$x =$$