

Use the properties of logarithms to write the expression as a sum, difference, and/or constant multiple of logarithm.

$$\log_{10} 10z$$

$$\ln \sqrt{\frac{x^2}{y^3}}$$

$$\log_b \frac{x^2}{y^2 z^3}$$

Write the expression as a logarithm of a singular quantity.

$$\ln x - 3 \ln(x + 1)$$

$$-4 \log_6 2x$$