

3.5 Practice Activity

Practice 3.5-1-1:

Use the Change-of-Base Formula and a calculator to evaluate the logarithm, round it to nearest hundredth.

$$\log_{\frac{1}{5}}(27)$$

Practice 3.5-2-1:

Using the product, quotient, and power rules for logarithms, expand the logarithmic expressions. To check if it's fully expanded: 1) No fractions, 2) No multiplication, 3) No exponents.

$$\log_b \left(\frac{xy^8}{7z^3} \right)$$

Practice 3.5-3-1:

Using the product, quotient, and power rules for logarithms, condense the logarithmic expressions.

$$2\log_b(x) + \log_b(y) - 3\log_b(z) - \log_b(5)$$