

I. Write the log equation in exponential form.
Ex 1)
$$\log_3 81 = 4 \implies 3^{4} = 81$$

Ex 2) $\log_7 (1/49) = -2 \implies 7^{-2} = 97$
Ex 3) $\ln 1 = 0 \implies -2^{2} = 1$
II. Write the exponential equation to log form.
Ex 4) $8^2 = 64 \implies 109_8 69 = 2$
Ex 5) $e^{x} = 4 \implies 109_8 69 = 2$
III. Evaluate without a calculator.
Ex 6) $f(x) = \log_3 x, x = 1$



IV. Use a calculator to evaluate. Ex 9) $f(x) = \log_{10} x$, x = 4/5 $\log_{10}(\frac{4}{5}) = -0.0969$ V. Solve for x. Ex 10) log_z x = log₇ 9 X29 Ex 11) log₆ 6² = x s=x