

Name _____

Date _____

Graphing Exponential and Logarithmic Functions - Guided Lesson

Complete the following problems:

1) Graph $f(x) = 4^{2-x}$

Since $2-x$ is zero when $x=2$, we will choose x values around 2 in our table of values. Also, let's graph 2^x on the same axes for comparison.

2) Graph $f(x) = \log_4 x$.

Rewriting $f(x) = y = \log_4 x$ in exponential form we get $x = 4^y$. We can graph $x=4^y$ by using the same method for exponential function, except this time we will choose values for y and then compute the corresponding values for x .

3) Graph $f(x) = \log_7 x$.

Rewriting $f(x) = y = \log_7 x$ in exponential form we get $x = 7^y$. We can graph $x=7^y$ by using the same method for exponential function, except this time we will choose values for y and then compute the corresponding values for x .

