DoThis 4.4 Solutions NAME:

1a.) In words, what does $\log_3 27$ mean?

the number to which I raise 3 to get 27

b.) What is the numerical value of $\log_3 27$?

3 because $3^3 = 27$

2a.) In words, what does $\log_4 \frac{1}{16}$ mean?

the number to which I raise 4 to get $1/16$

b.) What is the numerical value of $\log_4 \frac{1}{16}$?

-2 because $4^{-2} = 1/16$ *(You have to remember how negative exponents work.)*

3.) Write $4 = 5^x$ as a logarithmic equation. (Recall $x = 2^y$ is equivalent to $y = \log_2 x$.)

$x = \log_5 4$

Look over the notes if you are having trouble with these problems.