## Answer on Question \#44089, Math, Algebra

how do i write in exponential form $\log (0.001)=-3$

## Solution:

The logarithm equation $\log _{b} a=c$ and the exponential equation $a=b^{c}$ are always equivalent by definition. Therefore, by definition, the logarithm equation $\log (0.001)=-3$ is equivalent to the exponential equation:

$$
10^{-3}=0.001
$$

