CONCEPT: LOGARITHM & ANTI-LOGARITHMS

ln	n General Chemistry, learned that pH equaled the negative (–) log of the concentration	n of hydronium	ions and e	even then
we	ve had to take into account the number of significant figures.			

•	r with a decimal point, like the one below, the portion to the left of the decimal point is referred to and the portion to the right of the decimal point is referred to as the			
12.005				
When taking the log of a nu	mber:			
1) The number of digits in the	e mantissa of your answer is equal to the number of significant figures in the problem.			
EXAMPLE 1: Provide the a	nswer with the correct number of significant figures for each of the following:			
a) log(1.15 x 10 ⁻⁵)	b) log(100.)			
The antilogarithm of a nun	ober x is equal to When taking the antilog of a number:			
1) The number of significan	figures in the answer is equal to the number of digits in the mantissa of the problem.			
EXAMPLE 2: Provide the a	nswer with the correct number of significant figures for each of the following:			
a) antilog(-4.18)	b) 10 ^{0.0033}			